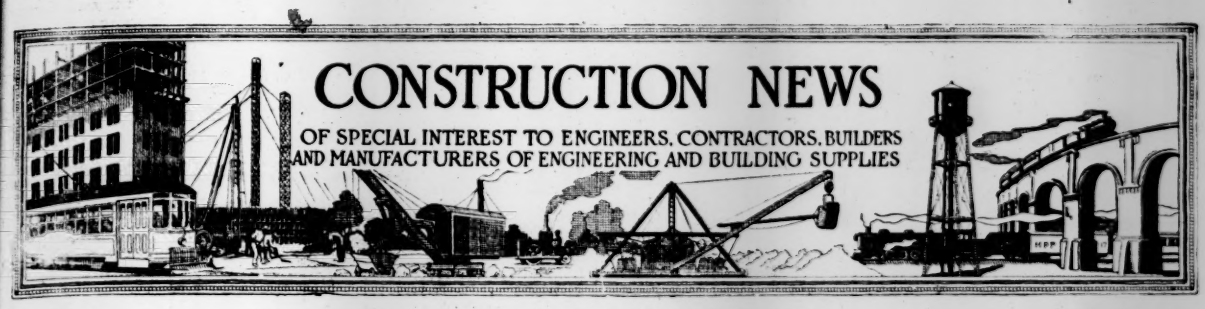

# CONSTRUCTION NEWS

OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

**Price advances are indicated by heavy type; declines by *italics*.**

**PIG IRON—**

| | Current | One Month Ago |
|---|---|---|
| CINCINNATI | | |
| No. 2 Southern | $30.35 | $30.35 |
| Northern Basic | 27.55 | 27.55 |
| Southern Ohio No. 2 | 28.55 | 28.55 |
| NEW YORK, tidewater delivery | | |
| 2X Virginia (silicon 2.25 to 2.75) | 32.40 | 32.40 |
| Southern No. 2 (silicon 2.25 to 2.75) | 35.20 | 35.20 |
| BIRMINGHAM | | |
| No. 2 Foundry | 27.75 | 28.00 |
| PHILADELPHIA | | |
| Eastern Pa. | 30.65* | 30.65 |
| Virginia No. 2 | 32.10-34.10† | 32.10-34.10 |
| Basic | 30.90* | 30.90 |
| Grey Forge | 29.90* | 29.90 |
| CHICAGO | | |
| No. 2 Foundry Local | 26.75 | 26.75 |
| No. 2 Foundry Southern | 28.00 | 28.00 |
| PITTSBURGH, including freight charge from the Valley | | |
| No. 2 Foundry Valley | 28.15 | 28.15 |
| Basic | 27.15 | 27.15 |
| Bessemer | 29.35 | 29.35 |

*F. o. b. furnace. † Delivered.

## RAILWAY SUPPLIES

**STEEL RAILS**—The following quotations are per ton f. o. b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

| | Pittsburgh | | Chicago | |
|---|---|---|---|---|
| | Current | One Year Ago | Current | One Year Ago |
| Standard bessemer rails | $45.00 | $55.00 | $45.00 | $65.00 |
| Standard openhearth rails | 47.00 | 57.00 | 47.00 | 67.00 |
| Light rails, 8 to 10 lb. | 2.58½* | 3.13* | 2.83½* | 3.13 * |
| Light rails, 12 to 14 lb. | 2.54* | 3.09* | 2.79* | 3.09* |
| Light rails, 25 to 45 lb. | 2.45* | 3.00 | 2.70* | 3.00* |

*Per 100 lb.

**TRACK SUPPLIES**—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

| | Pittsburgh | | | | San |
|---|---|---|---|---|---|
| | Current | One Year Ago | Chicago | St. Louis | Francisco |
| Standard spikes, ⅜-in. and larger | $3.35 | $3.90 | $4.27 | $4.44 | $5.65 |
| Track bolts | 4.35 | 4.90 | 5.17 | Premium | 6.65 |
| Standard section angle bars | 3.00 | .... | 4.22 | Premium | 4.60 |

**RAILWAY TIES**—For fair-sized orders, the following prices per tie hold:

| | | 7 In. x 9 In. by 8 Ft. 6 In. | 6 In. x 8 In by 8 Ft. |
|---|---|---|---|
| Chicago | Plain | $1.48 | $1.33 |
| San Francisco | Douglas Fir—Green | 1.42 | 1.00 |
| San Francisco | Douglas Fir—Creosoted | 2.12 | 2.00 |

Prices per tie at Missouri mills; St. Louis prices about 25c. higher:

| Untreated A Grade White Oak 6x8x8 | | Untreated A Grade Red Oak 6x8x8 | |
|---|---|---|---|
| No. 1 | $0.70 | No. 1 | $0.55 |
| No. 2 | .80 | No. 2 | .65 |
| No. 3 | .90 | No. 3 | .75 |
| No. 4 | .98 | | |
| 7x9x8 white oak | | | 1.05 |
| 7x9x8 red oak (No. 4) | $0.80 | No. 5 | .87 |

Note.—Add 36c. each for treatment.

## PIPE

**STEEL**—From warehouses at the places named the following discounts hold for steel pipe:

| | Black | | |
|---|---|---|---|
| | New York | Chicago | St. Louis |
| ⅛ to 3 in. butt welded | 47% | 57.5% | 45% |
| 2½ to 6 in. lap welded | 42% | 53.5% | 41½% |

| | Galvanized | | |
|---|---|---|---|
| | New York | Chicago | St. Louis |
| ⅛ to 3 in. butt welded | 31% | 44% | 30½% |
| 2½ to 6 in. lap welded | 27% | 41% | 27½% |

Malleable fittings, Class B and C, from New York stock sell at +12½% list prices. Cast iron, standard sizes, 10% off.

**CAST-IRON PIPE**—The following are prices per net ton for carload lots:

| | New York | | | | | | |
|---|---|---|---|---|---|---|---|
| | Current | One Month Ago | One Year Ago | Chicago | St. Louis | San Francisco | Dallas |
| 4 in. | $57.30 | $55.30 | $64.75 | $58.80 | $52.00 | $77.55 | $65.00 |
| 6 in. and over | 54.30 | 52.30 | 61.75 | 55.80 | 49.00 | 74.55 | 62.00 |

Gas pipe and 16-ft. lengths are $1 per ton extra.

**PIPE**—The following discounts are for carload lots f.o.b. Pittsburgh: basing card of National Tube Co. for steel pipe, Cardry A. M. Byer's Co. for iron, both dated Mar. 21, 1919.

BUTT WELD

| Steel | | | Iron | |
|---|---|---|---|---|
| Inches | Black | Galvanized | Black | Galvanized |
| ⅛, ¼ and ⅜ | 50% | 24% | 39% | 23½% |
| ½ | 54% | 40% | | |
| ¾ to 3 | 57½% | 44% | | |

LAP WELD

| | | | | |
|---|---|---|---|---|
| 2 | 50% | 35% | 32½% | 18½% |
| 2½ to 6 | 53½% | 41% | 34½% | 21½% |

BUTT WELD, EXTRA STRONG PLAIN ENDS

| | | | | |
|---|---|---|---|---|
| ⅛, ¼ and ⅜ | 46% | 29% | ¼ to 1½ 39½% | 24½% |
| ½ | 51½% | 39% | | |
| ¾ to 1½ | 55½% | 43% | | |

LAP WELD, EXTRA STRONG PLAIN ENDS

| | | | | |
|---|---|---|---|---|
| 2 | 48% | 37% | 33½% | 20½% |
| 2½ to 4 | 51½% | 40% | 35½% | 23½% |
| 4½ to 6 | 50½% | 39% | 34½% | 22½% |

Malleable fittings. Class B and C, banded from New York stock sell at list 2% off. Cast iron, standard sizes, 20% off.

**CLAY DRAIN TILE**—The following prices are per 1000 lin.ft.:

| | New York | | | | | |
|---|---|---|---|---|---|---|
| Size, In. | Current | One Year Ago | St. Louis | Chicago | San Francisco | Dallas |
| 3 | $35.00 | $35.00 | $22.50 | $30.00 | .... | $33.44 |
| 4 | 51.00 | 51.00 | 27.00 | 40.00 | $45.00 | 50.16 |
| 5 | 65.00 | 65.00 | 45.00 | 50.00 | 65.00 | 62.70 |
| 6 | 90.00 | 90.00 | 55.00 | 60.00 | 90.00 | 83.60 |
| 8 | 130.00 | 130.00 | 100.00 | 80.80 | 150.00 | 133.76 |

**SEWER PIPE**—The following prices are in cents per foot for carload lots:

| | New York | | | | | |
|---|---|---|---|---|---|---|
| Size, In. | Current | One Year Ago | St. Louis | Chicago | San Francisco | Dallas |
| 3 | $0.09 | $0.126 | ..... | $0.09 | .... | $0.132 |
| 4 | .09 | .126 | ..... | .09 | $0.15 | .132 |
| 5 | .135 | .189 | ..... | .135 | .1875 | .207 |
| 6 | .135 | .189 | $0.16 | .135 | .225 | .207 |
| 8 | .21 | .294 | .21 | .21 | .3475 | .2875 |
| 10 | .315 | .441 | .29 | .315 | .45 | .4025 |
| 12 | .405 | .567 | .37 | .405 | .60 | .5175 |
| 15 | .54 | .766 | .56 | .54 | .9375 | .7475 |
| 18 | .75 | 1.05 | .91 | .875 | 1.275 | .9775 |
| 20 | .90 | 1.26 | 1.14 | 1.05 | 1.71 | 1.15 |
| 22 | 1.20 | 1.68 | 1.46 | 1.40 | .... | 1.495 |
| 24 | 1.35 | 1.935 | 1.56 | 1.80 | 2.125 | 1.725 |
| 27 | 2.145 | 2.795 | 1.90 | 2.75 | .... | 2.5875 |
| 30 | 2.376 | 3.096 | 2.57 | 3.45 | .... | 3.1625 |
| 33 | 3.15 | 4.05 | 3.09 | 4.00 | .... | 4.025 |
| 36 | 3.5875 | 4.6125 | 3.37 | 4.35 | .... | 4.60 |

| | 3 | 5 | 8 | 12 | 24 | 36 |
|---|---|---|---|---|---|---|
| Boston | $0.078 | $0.117 | $0.182 | $0.351 | $1.17 | $3.28 |
| St. Paul | .12 | .18 | .28 | .45 | 2.00 | 4.75 |
| Denver | .105 | .16 | .25 | .425 | 1.575 | ..... |
| Seattle | .... | .... | .36 | .64 | 2.25 | |
| Kansas City | .12 | .18 | .25 | .50 | 1.80 | 4.60 |
| Los Angeles | .0825† | .1375† | .2475 | .44 | 1.50† | ..... |
| New Orleans | | | 50 per cent. off | | | |
| Cincinnati | .08 | .1215 | *.189* | *.3645* | 1.215 | 3.1775 |
| Atlanta | .... | .... | .34 | .55 | 2.00 | .... |
| Montreal | | | *58* per cent. off | | | |
| Detroit | .081 | .1215 | .189 | .3645 | 1.215 | 2.7675 |
| Baltimore | .114 | .171 | .266 | .513 | 1.71 | ..... |

†4-in., 6-in., 30-in. respectively.

## ROAD AND PAVING MATERIALS

**ROAD OILS**—Following are prices per gallon in tank cars 8000 gal. minimum f.o.b. place named:

| | Current | One Month Ago |
|---|---|---|
| New York, 45-65% asphalt | $0.04¼ | $0.04¼ |
| New York, liquid asphalt | .06 | .06 |
| New York, binder | .06¼ | .06¼ |
| New York, flux | .04¼ | .04¼ |
| St. Louis, 40% asphalt | *.0412* | .06 |
| Chicago, 15-20% asphalt | .10 | .10 |
| Chicago, 100% dust layer | .11 | .11 |
| Dallas, 40-50% asphalt | .07 | .07 |
| Dallas, 60-70% asphalt | .08 | .08 |
| Dallas, 75-90% asphalt | .10 | .10 |
| San Francisco, 75-95% asphalt, per bbl. | 2.10 | 2.10 |

**ASPHALTUM**—Price per ton in packages and bulk in carload lots:

| | Brand | Package | Bulk |
|---|---|---|---|
| New York | Texaco | 18.00 | $14.00 |
| Chicago | Mexican | 33.00 | 31.00 |
| San Francisco | California | 17.00 | 13.75 |
| Dallas | Texaco and Mexican | 32.00 | 30.00 |
| Seattle | D grade | 23.50 | ..... |
| Denver | Trinidad | 45.00 | ..... |
| Denver | California | 38.00 | ..... |
| St. Paul | Mexican | 21.00 | ..... |
| Kansas City | Mexican | *26.00* | *24.00* |
| Atlanta | Standard | 24.00 | 19.80 |
| New Orleans | | 16.50 | ..... |
| St. Louis | Stanolind | 24.90 | 18.40 |
| Detroit | Bermudez | 48.00 | ..... |
| Baltimore | Manco | 43.00 | ..... |
| Los Angles | | ..... | 13.50 |
| Montreal | | ..... | 18.70 |

**PAVING STONE**—

| | | | |
|---|---|---|---|
| Chicago | About 4x8x4 dressed | $2.45 | sq.yd. |
| | About 4x8x4 common | 2.20 | sq.yd. |
| San Francisco | Basalt block 4x7x8 | 57.75 | per M |
| Kansas City | Granite | 3.00 | sq.yd. |
| Boston | 5-in. granite | 110.00 | per M |
| St. Paul | Sandstone | 1.75 | sq.yd. |
| Atlanta | Granite | 1.85 | sq.yd. |
| Detroit | Granite, small | 2.75 | sq.yd. |
| Baltimore | Common | *2.35* | sq.yd. |
| Montreal | Granite | 5.90 | sq.yd. |

**FLAGGING**—

| | | | |
|---|---|---|---|
| New York | Bronx | $0.21 | sq.ft. |
| | Manhattan | .22 | sq.ft. |
| | Queens, 5 ft. square | .23 | sq.ft. |
| | 5x20-in. cross-walk | .75 | lin.ft. |
| Chicago | 18 in. wide | .70 | lin.ft. |

**WOOD BLOCK PAVING**—

| | Size of Block | Treatment | Per Sq.Yd. |
|---|---|---|---|
| New York | 3½ | 16 | $3.25 |
| New York | 4 | 16 | 3.50 |
| Chicago | 4 | 16 | 3.10 |
| Chicago | 3½ | 16 | 2.95 |
| Chicago | City specifications | | 3.10 |
| St. Louis | 3½ | 16 | 2.45 |
| St. Louis | 4 | 16 | 2.70 |
| Seattle | 4 | 16 | 2.55 |
| Kansas City | 4 | 16 | 3.00 |
| St. Paul | 3½ | ... | 3.13 |
| Atlanta | 3½ | 16 | 2.25 |
| New Orleans | 3½ | 16 | 2.63 |
| New Orleans | 4 | 16 | 3.00 |
| Dallas | 3½ | 18 | 3.17 |
| Dallas | 4 | 18 | 3.56 |
| Baltimore | 3½ | 16 | 3.60 |
| Montreal | 4 | 16 | 4.60 |

# CONSTRUCTION MATERIALS

**SAND AND GRAVEL**—Price for cargo or carload lots is as follows, per cu.yd.:

| | Gravel 1½ In. | | Gravel ¾ In. | | Sand | |
|---|---|---|---|---|---|---|
| | Current | One Yr. Ago | Current | One Yr. Ago | Current | One Yr. Ago |
| New York | $2.00 | $2.00 | $2.00 | $2.00 | $1.25 | $1.25 |
| Denver | 1.60 | 1.60 | 1.60 | 1.60 | 1.25 | 1.10 |
| Chicago | 1.35 | 1.45 | 1.35 | 1.45 | 1.35 | 1.45 |
| Kansas City | 2.50 | 2.15 | 3.00 | 2.60 | 1.00† | .50‡ |
| St. Louis* | 1.78 | 1.25 | 1.82 | 1.35 | 1.68 | 1.45 |
| Seattle | 1.25 | 1.00 | 1.25 | 1.25 | 1.25 | 1.25 |
| Dallas | 2.50 | 2.00 | 2.50 | 2.00 | 2.25 | 1.40 |
| St. Paul | 1.25 | 1.25 | 1.35 | 1.50 | .60 | .60 |
| San Francisco | 1.15 | 1.20 | 1.15 | 1.20 | 1.15 | 1.20 |
| Boston | 1.60 | 2.00 | 1.60 | 1.75–2 | 1.00 | 1.00 |
| New Orleans | *2.40* | 1.50 | 2.40 | .70 | 1.20 | 2.25 |
| Atlanta | 2.00‡ | .... | .... | .... | 1.10‡ | .... |
| Detroit | 2.00 | .... | 2.00 | .... | 2.00 | .... |
| Baltimore | 1.54 | .... | 1.75 | .... | .65 | .... |
| Montreal | 1.20‡ | .... | .... | .... | 1.10‡ | .... |

*Fine white sand, Pacific and Ottawa per ton, *6. †Kaw River sand is $1.50 per yd. per ton.

**CRUSHED STONE**—Price for cargo or carload lots is as follows, per cu.yd.:

| | 1½ In. | | ¾ In. | |
|---|---|---|---|---|
| | Current | One Year Ago | Current | One Year Ago |
| New York | $1.65-1.75 | $1.70 | $1.75-1.85 | $1.85 |
| Chicago | 1.30 | 1.20 | 1.30 | 1.20 |
| St. Louis | 1.50 | 1.08 | 1.50 | 1.08 |
| Dallas | 2.70 | 1.51 | 2.70 | 1.55 |
| San Francisco | 1.50 | 1.20 | 1.50 | 1.20 |
| Boston | 3.00*(del) | 1.75 | 3.00*(del) | 1.75 |
| St. Paul (lime) | 1.15† | 1.15 | 1.25 | 1.40 |
| Denver | .... | 1.60 | 1.60 | 1.60 |
| Kansas City | 1.90 | 1.70 | 2.00 | 1.80 |
| Seattle | 1.50 | 1.30 | 1.50 | 1.30 |
| Atlanta | 2.25 | 1.50 | 2.35* | .... |
| New Orleans | 4.00 | .... | 4.35 | .... |
| Los Angeles | 1.20 | 1.50 | 1.20 | 1.60 |
| Detroit | *1.65* | .... | *1.65* | .... |
| Baltimore | 1.25 | .... | 1.50 | .... |
| Montreal | 1.90* | .... | 2.15* | .... |

*Per ton. †Limestone; traprock, $1.60 and $1.80 per ton for 1½ and ¾-in.

**LIME**—Warehouse prices:

| | Hydrated per Ton | | Lump per 200-Lb. Barrel | |
|---|---|---|---|---|
| | Finished | Common | Finished | Common |
| New York | $17.50 | $14.50 | $2.90* | $2.65* |
| Kansas City | *21.00* | 21.00 | 2.30 | 2.20 |
| Chicago | 18.00 | 17.50 | 1.80 | 1.10 |
| St. Louis | 22.00 | 18.00 | .... | 2.00 |
| Boston | 22.75 | 18.25 | 3.75* | 3.40* |
| Dallas | 30.00 | .... | 2.75 | .... |
| Cincinnati | 13.60 | 11.95 | 13.70‡ | 10.70‡ |
| San Francisco | 30.00 | .... | 2.80† | .... |
| St. Paul | 23.00 | 20.00 | 1.60 | 1.50 |
| New Orleans | .... | 17.50 | .... | 2.20 |
| Atlanta | .... | 1.90 | 1.80 | 1.95 |
| Detroit | 20.00 | 18.40 | 3.00* | 3.00* |
| Seattle | 30.00 | .... | 3.05† | 2.80† |
| Los Angeles | .... | .... | 3.05† | 2.80† |
| Baltimore | *18.75* | *13.75* | .... | 11.37‡ |
| Montreal | 20.00 | 20.00 | 15.00‡ | 15.00‡ |

* 300-lb. barrels. † Per 180-lb. barrel. ‡ Per ton.
NOTE—Refund of 10c. per barrel.

**NATURAL CEMENT**—Price to dealers for 500 bbl. or over, f.o.b. cars, exclusive of bags:

| | |
|---|---|
| St. Paul (Austin) | $1.45 |
| Kansas City (Ft. Scott) | 1.40 |
| New Orleans | 2.52 |
| Atlanta (Magnolin) | 1.85 |

**PORTLAND CEMENT**—Current prices are for barrels in carload lots, without bags, to contractors:

| | Current | One Month Ago Without Bags | One Year Ago With Bags |
|---|---|---|---|
| New York | $2.30 | $2.30 | $3.35 |
| Jersey City | 2.27 | 2.27 | 2.90 |
| Boston | 2.42 | 2.42 | 3.00 |
| Chicago | 2.00 | 2.00 | 2.45 |
| Pittsburgh | 2.05 | 2.05 | 2.55 |
| Cleveland | 2.32 | 2.32 | 2.72 |
| Detroit | 2.08 | 2.08 | 2.68 |
| Indianapolis | 2.27 | 2.27 | 2.62 |
| Toledo | 2.12 | 2.12 | 2.62 |
| Milwaukee | 2.11 | 2.11 | 2.56 |
| Duluth | 2.10 | 2.10 | 2.60 |
| Peoria | 2.12 | 2.12 | 2.56 |
| Cedar Rapids | 2.18 | 2.18 | 2.68 |
| Davenport | 2.14 | 2.14 | 2.64 |
| St. Louis | 2.20 | 2.20 | 2.70 |
| San Francisco | 2.43 | 2.43 | 2.88 |
| New Orleans | 2.36 | 2.36 | .... |
| St. Paul | 2.20 | 2.20 | 2.80 |
| Denver | 2.67 | 2.67 | 3.07 |
| Kansas City | 2.26 | 2.26 | 2.70 |
| Seattle | 2.53 | 2.53 | 3.33 |
| Dallas | 2.03 | 2.03 | 2.60 |
| Atlanta | 2.50 | 2.50 | .... |
| Cincinnati | 2.90 | 2.90 | 2.80 |
| Los Angeles | 2.78 | .... | 2.78 |

NOTE—Bag charge is generally 15c. each.

**TRIANGLE MESH**—Price per 100 sq.ft. in carload lots:

PLAIN 4-INCH x 4-INCH MESH

| Style Number | Sectional Area per Ft. | Square Inches Width | Pitts-burgh | New York | Chicago | St. Louis | Dallas | San Fran-cisco |
|---|---|---|---|---|---|---|---|---|
| 032 | 0.032 | | $0.92 | $1.16 | $0.98 | $0.99 | $1.13 | $1.32 |
| 049 | 0.049 | 1.18 | 1.48 | 1.26 | 1.26 | 1.43 | 1.67 | |
| 068 | 0.068 | 1.44 | 1.86 | 1.53 | 1.56 | 1.79 | 2.06 | |
| 093 | 0.093 | 1.85 | 2.39 | 1.97 | 2.00 | 2.41 | 2.65 | |
| 126 | 0.126 | 2.28 | 3.02 | 2.43 | 2.47 | 2.92 | 3.28 | |
| 153 | 0.153 | 2.72 | 3.59 | .90 | 2.95 | 3.48 | 3.93 | |
| 180 | 0.180 | 3.12 | 4.13 | 3.33 | 3.39 | 3.99 | .... | |
| 245 | 0.245 | 4.12 | 5.44 | 4.40 | 4.47 | 5.27 | .... | |
| 287 | 0.287 | 4.76 | 6.29 | 5.08 | 5.16 | 6.10 | 6.86 | |
| 336 | 0.336 | 5.52 | 7.30 | 5.89 | 5.99 | 7.06 | .... | |
| 395 | 0.395 | 6.40 | 8.45 | 6.83 | 6.94 | 8.19 | .... | |
| PAVING | | | | | | | | |
| 036P | 0.036 | | $0.71 | $0.92 | $0.76 | $1.77 | $0.80 | .... |
| 053P | 0.053 | | 1.00 | 1.28 | 1.06 | 1.08 | 1.12 | .... |
| 072P | 0.072 | | 1.26 | 1.66 | 1.34 | 1.37 | 1.46 | .... |
| 097P | 0.097 | | 1.62 | 2.12 | 1.73 | 1.76 | 1.88 | .... |
| 049R | 0.049 | | 1.00 | 1.28 | 1.06 | 1.08 | 1.12 | .... |
| 067R | 0.067 | | 1.26 | 1.65 | 1.4 | 1.37 | 1.46 | .... |
| 089R | 0.089 | | 1.62 | 3.11 | 1.73 | 1.76 | 1.88 | .... |

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths. Galvanized is about 10% higher.

**EXPANDED METAL LATH**—Prices in carload lots per 100 yd. for painted are as follows:

| Gage | Weight | New York Current | New York One Year Ago | Chicago | St. Louis | San Francisco | Dallas |
|---|---|---|---|---|---|---|---|
| 27 | 233 | $29.10 | $34.07 | $29.00 | $29.00 | $34.00 | $32.75 |
| 26 | 250 | 30.45 | 35.23 | 30.50 | 30.00 | 35.00 | 34.50 |
| 25 | 300 | 31.90 | 36.51 | 32.00 | ..... | 37.00 | 36.75 |
| 24 | 340 | 33.50 | 37.73 | 33.00 | 33.00 | 40.25 | 39.25 |
| 22 | 450 | 36.60 | 40.48 | ..... | ..... | ..... | 43.30 |

About 10% additional for smaller quantities.

**BARS, CONCRETE REINFORCING**—Following quotations are per 100 lb:

ROLLED FROM BILLETS

| | Warehouse, Uncut | | | | | | |
|---|---|---|---|---|---|---|---|
| | Mill | New York Cur-rent | New York One Year Ago | Chicago | St. Louis | Dallas | San Francisco |
| In. | Pittsburgh | | | | | | |
| ¾ and larger | $2.35 | $3.37 | $4.14½ | $3.37 | $3.68 | $4.75 | $4.60 |
| ⅝ | 2.40 | 3.42 | 4.19½ | 3.42 | 3.74 | 4.80 | 4.65 |
| ½ | 2.45 | 3.47 | 4.24½ | 3.47 | 3.79 | 4.95 | 4.70 |
| ⅜ | 2.60 | 3.62 | 4.39½ | 3.62 | 4.04 | 5.00 | 4.85 |
| ¼ | 2.85 | 3.87 | 4.64½ | 4.87 | 4.19 | 5.05 | 5.10 |

Twisted bars cut to length take extra of 27½c. per 100 lb. Extra on deformed bars, uncut, 7½c.

ROLLED FROM RAILS

| | Chicago | St. Louis | Dallas | | Chicago | St. Louis | Dallas |
|---|---|---|---|---|---|---|---|
| ¾ in. and larger | $3.45 | $3.45 | $4.25 | ¾ | $3.70 | $3.70 | .... |
| ⅝ | 3.50 | 3.50 | 4.30 | ½ | 3.95 | .... | .... |
| ½ | 3.55 | 3.55 | .... | | | | |

**BRICK**—To contractors price per 1000 in cargo or carload lots is as follows:

| | Common Current | Common One Month Ago | Common One Year Ago | Paving Brick | Paving Block |
|---|---|---|---|---|---|
| New York | $15.00 | $15.00 | $14.00 | No Quotations | |
| Chicago | 12.00 | 12.00 | 11.00 | ..... | ..... |
| St. Louis, selected | 18.00* | 16.00 | 16.00 | $26.00 | ..... |
| St. Louis, salmon | 12.00 | 10.00 | 10.00 | ..... | ..... |
| Denver | 14.00† | 13.00 | 9.50 | ..... | 38.00 |
| Dallas | 18.57 | 18.00 | 14.03 | 27.30 | ..... |
| San Francisco | 12.50 | 12.50 | 12.00 | ..... | ..... |
| Boston | 18.00 | 18.00 | 16.00 | 30.00 | 45.50 |
| New Orleans | 19.00 | 17.50 | 19.00 | 18.50 | 18.50 |
| St. Paul | 13.00 | 13.00 | 9.40 | 30.00 | 36.50 |
| Kansas City | 16.00 | 15.00 | 13.00 | 42.50 | ..... |
| Seattle | 15.00 | 15.00 | 15.00 | ..... | 42.00 |
| Cincinnati | 17.00 | 16.00 | 13.00 | ..... | ..... |
| Atlanta | 16.00 | 15.00 | ..... | 40.00 | ..... |
| Los Angeles | 12.50 | 12.50 | 10.00 | ..... | ..... |
| Montreal | 15.00 | 15.00 | ..... | 81.00 | ..... |
| Detroit | 20.00 | 19.00 | .... | 37.00 | ..... |
| Baltimore (del) | 18.00 | 18.00 | ..... | 22.00 | 42.50 |

† Salmon is $13 in Denver. * Hard brick, $14.

**HOLLOW TILE**—Price per block in carload lots for hollow building tile:

| | New York Current | New York One Year Ago | Chicago | St. Louis | San Francisco | Dallas | Factory Perth Amboy, N. J. |
|---|---|---|---|---|---|---|---|
| 4x12x12 | $0.11475* | $0.10125 | $0.08 | $0.08 | $0.1125 | $0.1088 | |
| 6x12x12 | .153* | .13500 | .112 | .105 | .15 | .09 | $0.1512 |
| 8x12x12 | .204* | ..... | .144 | .15 | ..... | .115 | .1944 |
| 10x12x12 | ..... | ..... | .168 | .17 | ..... | .2546 | .2268 |
| 12x12x12 | ..... | ..... | .208 | .208 | ..... | .3082 | .2916 |

*Delivered below 72nd St.

| | 4x12x12 | 8x12x12 | 12x12x12 |
|---|---|---|---|
| Boston | $0.10 | $0.22 | $0.30 |
| St. Paul | .065 | .135 | .185 |
| Cincinnati | **.78** | *.104* | **.20925** |
| Kansas City | .0786 | .15 | .205 |
| Denver | .1250 | .18 | .25 |
| Seattle | .09 | .175 | .30 |
| Atlanta | *.09* | **.16** | **.25** |
| Los Angeles | .082 | .154 | |
| New Orleans | .165 | .22 | .325 |
| Detroit | .0842 | .1579 | .2264 |
| Baltimore | .115 | .21 | .2875 |
| Montreal | .19 | .28 | .34 |

**STRUCTURAL MATERIAL**—Following are base prices f.o.b. mill, Pittsburgh, together with quotations per 100 lb. from warehouses at places named:

| | Mill Pittsburgh | New York Current | New York 1 Yr. Ago | St. Louis | Chicago | San Francisco | Dallas |
|---|---|---|---|---|---|---|---|
| Beams, 3 to 15 in. | $2.45 | $3.47 | $4.24½ | $3.54 | $3.47 | $4.45 | $5.50 |
| Channels, 3 to 15 in. | 2.45 | 3.47 | 4.24½ | 3.54 | 3.47 | 4.45 | 5.50 |
| Angles, 3 to 6 in., ¼ in. thick | 2.45 | 3.47 | 4.24½ | 3.54 | 3.47 | 4.45 | 5.50 |
| Tees, 3 in. and larger | 2.45 | 3.52 | 4.24½ | 3.54 | 3.47 | 4.45 | 5.50 |
| Plates | 2.66 | 3.67 | 4.49½ | 3.54 | 3.67 | 4.90 | 5.75 |

**RIVETS**—The following quotations are per 100 lb.:

STRUCTURAL

| | Mill Pittsburgh | New York Warehouse Current | New York Warehouse One Yr. Ago | Chicago | St. Louis | San Francisco | Dallas |
|---|---|---|---|---|---|---|---|
| ½ in. and larger | $4.20 | $4.72 | $5.65 | $4.72 | $4.79 | $6.05 | $7.50 |

CONE HEAD BOILER

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ½ in. and larger | 4.30 | 4.82 | 5.75 | 4.82 | 4.89 | 6.15 | 7.50 |
| ⅝ and ¾ | 4.45 | 4.97 | 5.90 | 4.97 | 5.04 | 6.30 | 7.50 |
| ⅞ and 1 | 4.70 | 5.32 | 6.25 | 5.32 | 5.29 | 6.65 | 7.75 |

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2in. take an extra of 25c.

**PREPARED ROOFINGS**—Standard grade rubbered surface, complete with nails and cement, costs per square as follows in New York, St. Louis, Chicago and San Francisco:

| | 1-Ply c.l. | 1-Ply l.c.l. | 2-Ply c.l. | 2-Ply l.c.l. | 3-Ply c.l. | 3-Ply l.c. |
|---|---|---|---|---|---|---|
| No. 1 grade | $1.50 | $1.75 | $1.90 | $2.15 | $2.30 | $2.55 |
| No. 2 grade | 1.35 | 1.60 | 1.70 | 1.95 | 2.05 | 2.30 |

Asbestos asphalt-saturated Felt (14 lb. per square) costs $156 per ton.

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $2.25 per roll in carload lots and $2.50 for smaller quantities.

Shingles, red and green slate finish, cost $6.00 per square in carloads; $6.25 in smaller quantities, in Philadelphia.

**ROOFING MATERIALS**—Prices per ton f.o.b. New York and Chicago:

| | Carload Lots N. Y. | Carload Lots Chicago | Less Than Carload Lots N. Y. | Less Than Carload Lots Chicago |
|---|---|---|---|---|
| Tar felt (14 lb. per square of 100 sq.ft.) | $70.00 | $70.00 | $71.00 | $71.00 |
| Tar pitch (in 400-lb. bbl.) | 21.00 | 18.00 | 22.00 | 19.00 |
| Asphalt pitch (in barrels) | 34.00 | 34.00 | 37.50 | 37.50 |
| Asphalt felt | 68.00 | 48.00 | 72.50 | 72.50 |

**SHEETS**—Quotations are in cents per pound in various cities from warehouse also the base quotations from mill:

| Blue Annealed | Large Mill Lots Pittsburgh | St. Louis | Chicago | San Francisco | New York Current | New York One Yr. Ago |
|---|---|---|---|---|---|---|
| No. 10 | 3.55 | 4.64 | 4.57 | 5.80 | 4.57 | 5.495 |
| No. 12 | 3.60 | 4.69 | 4.62 | 5.75 | 4.62 | 5.545 |
| No. 14 | 3.65 | 4.74 | 4.67 | 5.90 | 4.67 | 5.595 |
| No. 16 | 3.75 | 4.84 | 4.77 | 6.00 | 4.77 | 5.695 |
| Black | | | | | | |
| *Nos. 18 and 20 | 4.15 | 5.24 | 5.42 | 6.75 | 5.30 | 6.295 |
| *Nos. 22 and 24 | 4.20 | 5.29 | 5.47 | 6.80 | 5.35 | 6.345 |
| *No. 26 | 4.25 | 5.34 | 5.52 | 6.95 | 5.40 | 6.395 |
| *No. 28 | 4.35 | 5.44 | 5.62 | 7.05 | 5.50 | 6.595 |
| Galvanized | | | | | | |
| No. 10 | 4.70 | 5.79 | 5.97 | .... | 6.20 | 6.845 |
| No. 12 | 4.80 | 5.89 | 6.07 | 7.30 | 6.25 | 6.945 |
| No. 14 | 4.80 | 5.89 | 6.07 | 7.30 | 6.30 | 6.945 |
| Nos. 18 and 20 | 5.20 | 6.19 | 6.37 | 7.60 | 6.60 | 7.245 |
| Nos. 22 and 24 | 5.25 | 6.34 | 6.52 | 7.75 | 6.75 | 7.295 |
| *No. 26 | 5.40 | 6.04 | 6.67 | 7.90 | 6.90 | 7.445 |
| *No. 28 | 5.70 | 6.79 | 6.97 | 8.20 | 7.20 | 7.745 |

*For painted corrugated sheets add 30c. per 1000 lb. for 25 to 28 gage; 25c. for 19 to 24 gages; for galvanized corrugated sheets add 15c., all gages.

**LINSEED OIL**—These prices are per gallon:

| | New York Current | New York One Year Ago | Cleveland Current | Cleveland One Year Ago | Chicago Current | Chicago One Year Ago |
|---|---|---|---|---|---|---|
| Raw in barrel | $2.25 | $1.86 | $2.50 | $2.00 | $2.48 | $2.05 |
| Legal cans | 2.40 | 1.96 | 2.25 | 2.15 | 2.68 | 2.25 |

**WHITE AND RED LEAD**—Base price per pound:

| | Red Current Dry | Red Current In Oil | Red 1 Year Ago Dry | Red 1 Year Ago In Oil | White Current Dry and In Oil | White 1 Yr. Ago Dry and In Oil |
|---|---|---|---|---|---|---|
| 100-lb. keg | 13.00 | 14.50 | 11.25 | 11.00 | 13.00 | 10.50 |
| 25 and 50-lb. kegs | 13.25 | 14.75 | 11.50 | 11.25 | 13.25 | 10.75 |
| 12½-lb. keg | 13.50 | 15.00 | 11.75 | 11.50 | 13.50 | 11.00 |
| 5-lb. cans | 15.00 | 16.50 | 13.25 | 13.00 | 15.00 | 13.00 |
| 1-lb. cans | 16.00 | 17.50 | 13.25 | 13.00 | 16.00 | 13.00 |

500 lb. lots less 10% discount; 2000 lb. lots less 10-2½% discount.

# LUMBER

**San Francisco**—Prices of rough Douglas fir No. 1 common, in more than carload lots:

| | Lumber Prices in Yards at San Francisco 6-8-12 and 14 Ft. | 10-16-18 and 20 Ft. | 22 and 24 | 25 to 32 Ft |
|---|---|---|---|---|
| 3x3 and 4 | $34 50 | $35 00 | $36 00 | $38 00 |
| 3x6 and 8 | 35 50 | 36 00 | 37 00 | 39 00 |
| 4x4-6 and 8 | 36 00 | 37 00 | 38 00 | 40 00 |
| 3x10 and 12 | 36 00 | 37 00 | 38 00 | 40 00 |
| 3x14 | 36 50 | 37 50 | 38 50 | 40 50 |
| 4x10 and 12 | 36 00 | 37 00 | 38 00 | 40 00 |
| 4x14 | 37 00 | 38 00 | 39 00 | 41 00 |

| | 24 Ft. and Under | 25 to 32 Ft | 33 to 40 Ft |
|---|---|---|---|
| 6x10 | $35 50 | $37 50 | $38 50 |
| 6x14 | 37 00 | 39 00 | 40 00 |
| 8x10 | 35 50 | 37 50 | 38.50 |
| 8x14 | 37 00 | 39 00 | |

**New York, Chicago and St. Louis**

| | Southern Pine New York* 20 Ft. and Under | Southern Pine New York* 22-24 Ft. | Southern Pine Chicago 20 Ft. and Under | Southern Pine Chicago 22-24 Ft. | Yellow Pine St. Louis 20 Ft. and Under | Yellow Pine St. Louis 22-24 Ft. |
|---|---|---|---|---|---|---|
| 3x 4 to 8x 8 | $48 00 | $49 00 | $51.00 | $52.00 | $40.00 | $42.00 |
| 3x10 to 10x10 | 52 00 | 53 00 | 55.00 | 56.00 | *43.00* | 45.00 |
| 3x12 to 12x12 | 56 00 | 57 00 | 57.00 | 58.00 | 45.00 | 46.50 |
| 3x14 to 14x14 | 60 00 | 61 00 | 62.00 | 63.00 | 50.00 | 52.00 |
| 3x16 to 16x16 | 69 00 | 70 00 | 65.00 | 66.00 | 53.00 | 55.00 |
| 3x18 to 18x18 | *74 00* | *75.00* | 69.00 | 70.00 | *57.00* | *58.00* |
| 4x20 to 20x20 | 99 00 | *80.00* | ..... | ..... | ..... | ..... |

* Prices from Lumbermen's Bureau.

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12 x 12 and under; for sizes over 12 x 12 add $2. For merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all sizes.

**Other Cities**

| | 8 x 8-In. x 20-Ft. and Under P. | 8 x 8-In. x 20-Ft. and Under Fir | 8 x 8-In. x 20-Ft. and Under Hemlock | 8 x 8-In. x 20-Ft. and Under Spruce | 12 x 12-In. 20 Ft. and Under P. | 12 x 12-In. 20 Ft. and Under Fir |
|---|---|---|---|---|---|---|
| Boston | $50.00 | $49.00 | $48.00 | $48.00 | $50.00 | $50.00 |
| Kansas City | 51.00 | 51.25 | 51.25 | ..... | 57.00 | *48.50* |
| Seattle | ..... | *30.00* | ..... | ..... | ..... | 31.00 |
| New Orleans | 45.00 | ..... | ..... | ..... | 48.00 | ..... |
| St. Paul | 60.00 | 61.00 | 60.00 | 46.00 | 62.00 | 63.00 |
| Atlanta | 55.50 | 57.50 | 58.00 | 68.00 | 68.50 | 70.50 |
| Baltimore | *46.00* | ..... | ..... | ..... | 60.00 | ..... |
| Cincinnati | 45.00 | 45.00 | 42.00 | 42.00 | 48.00 | 48.00 |
| Montreal | 58.00 | 65.00† | 65.00 | 58.00‡ | 58.00 | 58.00 |

| | 1-In. Rough, 10 In. and Under P. | 1-In. Rough, 10 In. and Under Fir | 1-In. Rough, 10 In. and Under Hemlock | 2-In. T. and Gr. 10 In. x 16 Ft. P. | 2-In. T. and Gr. 10 In. x 16 Ft. Fir |
|---|---|---|---|---|---|
| Boston | ..... | $50.00 | $48.00 | $50.00 | $50.00 |
| Kansas City | ..... | 78.50 | *64.75* | 81.75 | *77.75* |
| Seattle | ..... | ..... | 31.50 | ..... | 31.50 |
| New Orleans | ..... | *54.00* | ..... | 55.25 | ..... |
| St. Paul | ..... | 58.00 | 55.00 | 54.00 | 63.00 | 56.00 |
| Atlanta | ..... | 80.00 | 85.00 | ..... | 65.00 | 67.50 |
| Baltimore | ..... | 42.00 | ..... | ..... | 40.00 | ..... |
| Cincinnati | ..... | 45.00 | 43.00 | 42.00 | 45.00 | 45.00 |
| Montreal | ..... | 60.00* | 59.00 | 44.00 | 65.00 | 63.00 |

* 2x8 costs $56. † Up to 32 ft., above that add $4. ‡ Also tamarac.

Los Angeles—Base price (2x3x16 ft.), Douglas fir or hemlock, $43.
Detroit—Base price, yellow pine (8x8x20), $43.

**Dallas**—Yellow pine. Price per M:

| | |
|---|---|
| 2x4 to 2x12—12, 14 and 16 | $57.50 |
| 2x4 to 2x12—10, 18 and 20 | 60.00 |
| 2x4 to 2x12—22 and 24 | 62.50 |
| 4x4, 4x6, 6x6, 8x8 and 3x8 | 61.25 |
| 8x10, 10x10 and 3x10 | 62.50 |
| 12x12 and 3x12 | 67.50 |

**NAILS**—The following quotations are per keg from warehouse:

| | Mill Pittsburgh | St. Louis | Chicago | San Francisco | Dallas |
|---|---|---|---|---|---|
| Wire | $3.25 | $3.90 | $3.90 | $5.25 | $5.00 |
| Cut | 4.25 | 5.40 | 5.50 | 6.65 | 6.40 |

## FREIGHT RATES

On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

| | | | |
|---|---|---|---|
| Boston | $0.30 | New Orleans | $0.38½ |
| Buffalo | .17 | New York | .27 |
| Chicago | .27 | Pacific Coast (all rail) | 1.25* |
| Cincinnati | .23 | Philadelphia | .24½ |
| Cleveland | .17 | St. Louis | .24 |
| Denver | .99 | St. Paul | .49½ |
| Kansas City | .59 | Detroit | .33 |
| | | Baltimore | .33 |

Note—Add 3% transportation tax. * Minimum carload, 80,000 lb.

## Contractors' Miscellaneous Supplies

**STEEL SHEET PILING**—The following price is base per 100 lb. f. o. b. Pittsburgh, with a comparison of a month and a year ago:

| Current | One Month Ago | One Year Ago |
|---|---|---|
| $2.55 | $2.55 | $4 |

**WIRE ROPE**—Discounts from list price on regular grades of bright and galvanized are as follows:

| | New York and St. Louis |
|---|---|
| Galvanized iron rigging | +12½% |
| Galvanized cast steel rigging | 7½% |
| Bright plow steel | 35% |
| Bright cast steel | 22½% |
| Bright iron and iron tiller | 5 |

San Francisco: Galvanized, less 5%, bright, less 25%.
Chicago, +5 on galvanized, 30–2½ off on bright.

**MANILA ROPE**—For rope smaller than ¼-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ¼-in., 8 ft., ⅜-in., 6; ½-in., 4½; ⅝-in., 3½; ¾-in., 2 ft. 10 in.; 1¼-in., 2 ft. 4 in. Following is price per pound for ¼-in. and larger, in 1200-ft. coils:

| | | | |
|---|---|---|---|
| Boston | $0.25 | Kansas City | $0.27 |
| New York | .27 | New Orleans | .25½ |
| Chicago | .26½ | Los Angeles | .28 |
| St. Paul | .28 | Seattle | .25 |
| San Francisco | .25½ | St. Louis | .26½ |
| Atlanta | .29½ | Montreal | .32 |
| Denver | .29½ | Detroit | .28 |
| Cincinnati | .29 | Baltimore | .25 |

**EXPLOSIVES**—Price per pound of dynamite in small lots and price per 25 lb. keg for black powder.

| | Low Freezing 20% | Gelatin 40% | Gelatin 60% | Gelatin 80% | Black Powder |
|---|---|---|---|---|---|
| New York | ..... | $0.27½ | $0.30 | ..... | $2.40 |
| Boston | $.2225 | .2425 | .2675 | $.3100 | 2.20 |
| Kansas City | .19 | .2375 | .2625 | .30 | 2.25 |
| New Orleans | .2375* | .2275 | .2475 | ..... | .... |
| Seattle | $0.1425 | $0.185 | $0.21 | $0.315 | $1.90 |
| Chicago | .1875 | .2125 | .2550 | .2975 | 2.15 |
| St. Paul | .19 | .2375 | .2625 | ..... | 2.45 |
| St. Louis | .19 | .2325 | .2375 | .3000 | 2.40 |
| Denver | .1775 | .22 | .245 | .2875 | 2.25 |
| Dallas | ..... | ..... | .288 | .342 | 2.75 |
| Los Angeles | .21 | .26 | .30 | 2.75 | |
| Atlanta | .20 | .225 | .245 | ..... | 2.45 |
| Baltimore | .19 | .23½ | .28½ | .30 | 2.35 |
| Cincinnati | .1875 | .2125 | .2325 | ..... | 2.35 |
| Montreal | .28 | .31 | .34 | .39 | ..... |

* For 50%.

**POLES**—Price of Western red cedar poles is as follows:

| | New York Current | New York One Year Ago | Chicago | St. Louis | Denver |
|---|---|---|---|---|---|
| 6-in. x 30-ft | $5.82 | $5.60 | $5.17 | $4.55 | $5.17 |
| 7-in. x 30-ft | 7.65 | 7.45 | 6.85 | 6.10 | 6.85 |
| 7-in. x 35-ft | 11.10 | 10.80 | 10.00 | 8.95 | 10.00 |
| 8-in. x 30-ft | 12.65 | 12.30 | 11.35 | 10.10 | 11.35 |
| 7-in. x 40-ft | 12.85 | 12.50 | 11.50 | 10.20 | 11.50 |
| 8-in. x 45-ft | 18.90 | 18.40 | 16.90 | 15.00 | 16.90 |
| 8-in. x 50-ft | 22.65 | 22.05 | 20.30 | 18.00 | 20.30 |

10c. higher freight rates on account of double loads.

For plain pine poles, delivered New York, the price is as follows:

| | |
|---|---|
| 10-in. butts, 5-in. tops, length 20-30 ft | $9.00 |
| 12-in. butts, 6-in. tops, length 30-40 ft | 11.50 |
| 12-in. butts, 6-in. tops, length 41-50 ft | 12.50 |
| 14-in. butts, 6-in. tops, length 51-60 ft | 21.00 |
| 14-in. butts, 6-in. tops, length 61-71 ft | 23.50 |

Note—At the present time it is almost impossible to give accurate prices on poles. The above are only nominal.

| | Dallas Aug. 1, 1919 |
|---|---|
| 6-in. x 20-ft | $4.60 |
| 6-in. x 30-ft | 7.10 |
| 8-in. x 30-ft | 8.45 |
| 8-in. x 35-ft | 10.38 |

**OLD MATERIAL**—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges.

| | New York | Chicago | St. Louis |
|---|---|---|---|
| No. 1 railroad wrought | $23.00 | $21.00 | $22.00 |
| Stove plate | 17.50 | 22.00 | 22.50 |
| No. 1 machinery cast | 25.00 | 24.00 | 23.50 |
| Machine shop turnings | 11.00 | 10.00 | 13.00 |
| Cast borings | 11.00 | 12.50 | 13.00 |
| Railroad malleable cast | 16.00 | 20.75 | 20.50 |

**SHIP SPIKES**—Current prices per 100 lb.

| In. | San Francisco Galv. | San Francisco Black | Seattle Black |
|---|---|---|---|
| ¼ | $9.20 | $8.50 | $8.55 |
| ⅜ | 8.75 | 6.75 | 8.25 |
| ½ | 8.60 | 6.60 | 8.30 |

Pittsburgh base, $3.85 per 100 lb.

## LABOR RATES AND CONDITIONS THROUGHOUT THE COUNTRY

S means scarce; E, enough; P, plentiful

| Cities | Bricklayers | Carpenters | Hoisting Engineers | Hod Carriers | Pile Drivers | Structural Iron Workers | Common Labor |
|---|---|---|---|---|---|---|---|
| Atlanta | $0.90S | $0.70 | $0.50 | $0.45 | $0.60 | $0.75 | $0.35 |
| Baltimore | 1.00E | 0.85P | 0.87½E | 0.46 to 0.54E | 0.74S | 0.87½E | 0.35 to 0.43S |
| Boston | .60-.70P | .80-.90P | .80-1.00P | .60-.70P | 80P | .80-1.00P | .52½- .62½P |
| Cincinnati | ..... | ..... | .70 | ..... | .50 | ..... | ..... |
| Dallas | 1.00E | .87½S | .87½E | .37½-.40S | ..... | .75S | .35S |
| Denver | 1.00E | .87½ | .93¾ | .59½ | ..... | .87½ | .40-.50 |
| Detroit | 1.00S | .80P | .90P | .60S | .90 | .85-.90 | .55S |
| Kansas City | 1.00 | .85 | .90 | .68½ | .77½ | .90 | .57½ |
| Los Angeles | .87½E | .75E | .75P | .56-.75S | .75P | .75P | .50-.62½E |
| Montreal | .75 | .70S | .60S | .45-.50S | .55P | .40-.55S | .30-.45S |
| New Orleans | .87½S | .75 | 1.00 | .60 | .80-1.00 | .75 | .30-.35 |
| New York | .87½ | .81¼ | .87½ | .57½ | .81¼ | .87½ | .56¼ |
| Pittsburgh | 1.00 | .90 | .90 | .60 | .60 | 1.00 | .40-.45S |
| St. Louis | 1.00 | .87½ | 1.00-1.12½ | .70 | .80-.92½ | .90 | .40-.45 |
| St. Paul | .87½ | .75 | .80 | .50 | .80 | .85 | .47½ |
| San Francisco | 1.25E | 1.00E | 1.00E | .87½E | 1.00E | 1.00E | .45-.50E |
| Seattle | 1.12 | .93¾ | .94 | .75-.80 | .90 | 1.00 | .75S |

**Remarks**

Atlanta—Some bricklayers are receiving $1 to $1.25 an hour. General shortage of skilled labor. No strikes.

Baltimore—Structural iron workers are asking $1.

Boston—Common labor is being obtained at considerably less than the union scale; in some cases as low as 35c.; on larger jobs, 45c.

Denver—All classes are asking for $1, decision wanted Sept. 1.

Los Angeles—No general strikes. In San Diego carpenters have struck on several jobs for $7 a day.

Montreal—Bricklayers threaten strike. Some carpenters and structural iron workers on strike. Good labor scarce account of exodus of foreigners, which comprise 75 per cent of Canadian labor.

New York—Bricklayers on strike since Aug. 15, for $10 a day; painters on strike for $8.

Pittsburgh—No strikes.

St. Louis—Skilled labor, 50c. to 70c. Building laborers 50c. Bricklayers on sewers, 50c.

St. Paul—On Aug. 12, bricklayers asked for $1, ignoring agreement to work until May 1, 1920, at 87½c. Sewer diggers, 50c. an hour; paving-block layers, 50c.; teams, 90c

San Francisco—All lines busy. No strikes.

Seattle—Considerable residence construction; building construction improved over last month. Street and road work booming. Labor situation easier, although there is a shortage in skilled labor.

# PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

## WATERWORKS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Sept. 6 | York, Ont. | Sept. 4 |
| Sept. 7 | Hespeler, Ont. | Sept. 4 |
| Sept. 8 | Algonac, Mich. | Sept. 4 |
| Sept. 9 | Mountain Lake, Minn. | Sept. 4 |
| Sept. 9 | Williamston, N. C. | Sept. 4 |
| Sept. 9 | Paradise, Utah. | Sept. 4 |
| Sept. 9 | Kearney, N. J. | Sept. 4 |
| Sept. 10 | Central Islip, N. Y. Adv. Aug. 28. | Aug. 28 |
| Sept. 10 | Grand Forks, N. D. | Sept. 4 |
| Sept. 10 | Rock River, Wyo. Adv. Aug. 28. | Aug. 28 |
| Sept. 11 | Wendell, N. C. | Aug. 28 |
| Sept. 15 | Pitman, N. J. Adv. Sept. 4. | Sept. 4 |
| Sept. 13 | Statesville, N. C. | Aug. 28 |
| Sept. 16 | South Amboy, N. J. | Sept. 4 |
| Sept. 17 | Kansas City, Mo. | Aug. 21 |

## SEWERS

| | | |
|---|---|---|
| Sept. 8 | Irvington, N. J. | Sept. 4 |
| Sept. 8 | Ivanhoe, Minn. | Sept. 4 |
| Sept. 8 | Viroqua, Wis. | Sept. 4 |
| Sept. 9 | Kendall, Ind. Adv. Aug. 28. | Aug. 28 |
| Sept. 9 | Lamberton, Minn. | Sept. 4 |
| Sept. 10 | Rock River, Wyo. Adv. Aug. 28. | Aug. 28 |
| Sept. 10 | Binghamton, N. Y. | Aug. 28 |
| Sept. 11 | Foley, Minn. | Sept. 4 |
| Sept. 15 | Alexandria, La. | Sept. 4 |
| Sept. 16 | Lake City, S. C. Adv. Sept. 4. | Sept. 4 |
| Sept. 18 | Drew, Miss. | Sept. 4 |

## BRIDGES

| | | |
|---|---|---|
| Sept. 8 | Fayetteville, W. Va. Adv. Sept. 4. | Sept. 4 |
| Sept. 8 | Gainesville, Ga. | Sept. 4 |
| Sept. 9 | Duluth, Minn. | Aug. 14 |
| Sept. 9 | Columbus, O. | Aug 28 |
| Sept. 9 | Danville, Ill. Adv. Aug. 28. | Aug. 28 |
| Sept. 9 | Lake Geneva, Wis. | Aug. 28 |
| Sept. 10 | Columbus, O. | Aug. 28 |
| Sept. 10 | Illinois | Sept. 4 |
| Sept. 12 | Schenectady, N. Y. Adv. Aug. 21. | Aug. 21 |
| Sept. 13 | Tacoma, Wash. | Sept. 4 |
| Sept. 13 | Pittsfield, Ill. | Sept. 4 |
| Sept. 15 | Portsmouth, Va. | Aug. 28 |
| Sept. 15 | Wayne, W. Va. | Aug. 21 |
| Sept. 16 | Dublin, Ga. | Sept. 4 |
| Sept. 17 | Pasco, Wash. | Aug. 28 |
| Sept. 22 | Norristown, Pa. Adv. Aug. 28. | Aug. 28 |
| Sept. 22 | Duluth, Minn. | Aug. 28 |
| Sept. 23 | Harrisburg, Pa. Adv. Aug. 14. | Aug. 14 |

## STREETS AND ROADS

| | | |
|---|---|---|
| Sept. 8 | Seattle, Wash. | Aug. 21 |
| Sept. 8 | Indiana | Aug. 14 |
| Sept. 8 | Monroe, Ga. | Aug. 21 |
| Sept. 8 | Vercheres, Que. | Aug. 28 |
| Sept. 8 | Como East, Que. | Aug. 28 |
| Sept. 8 | Beaver Falls, Pa. | Sept. 4 |
| Sept. 8 | Bakersfield, Cal. | Aug. 28 |
| Sept. 8 | Wayne, W. Va. | Sept. 4 |
| Sept. 8 | Port Huron, Mich. | Sept. 4 |
| Sept. 8 | Louisiana | Sept. 4 |
| Sept. 8 | Stafford, Kan. | Sept. 4 |
| Sept. 9 | Michigan | Sept. 4 |
| Sept. 9 | Maryland | Sept. 4 |
| Sept. 9 | Massachusetts | Sept. 4 |
| Sept. 9 | Jersey City, N. J. | Sept. 4 |
| Sept. 9 | New York, N. Y. Adv. Aug. 21. | Aug. 21 |
| Sept. 9 | Keyser, W. Va. Adv. Aug. 21 | Aug. 21 |
| Sept. 9 | Jersey City, N. J. | Aug. 21 |
| Sept. 9 | Indiana | Aug. 28 |
| Sept. 9 | Whiteville, N. C. | Aug. 28 |
| Sept. 9 | Trenton, N. J. | Aug. 28 |
| Sept. 10 | Centerville, Tenn. | Aug. 28 |
| Sept. 10 | Bentonville, Ark. | Aug. 21 |
| Sept. 10 | Delaware Adv. Aug. 21 | Aug. 21 |
| Sept. 10 | Waterloo, Ia. | Aug. 21 |
| Sept. 10 | Denver, Colo. | Sept. 4 |
| Sept. 10 | Salt Lake City, Utah | Sept. 4 |
| Sept. 10 | Pawnee, Okla. | Sept. 4 |
| Sept. 12 | Indiana | Sept. 4 |
| Sept. 12 | Quebec | Sept. 4 |
| Sept. 12 | Wisconsin | Sept. 4 |
| Sept. 12 | Washington, Kan. | Sept. 4 |
| Sept. 12 | Trenton, N. J. | Aug. 28 |
| Sept. 13 | Arizona | Sept. 4 |
| Sept. 14 | Quincy, Fla. | Sept. 4 |
| Sept. 15 | North Carolina | Sept. 4 |
| Sept. 15 | Clayton, Mo. | Aug. 28 |
| Sept. 15 | Sanford, Fla. | Aug. 28 |
| Sept. 15 | New Mexico | Aug. 28 |
| Sept. 15 | Belair, Md. Adv. Sept. 4. | Sept. 4 |
| Sept. 15 | Washington | Sept. 4 |
| Sept. 16 | Maryland Adv. Sept. 4. | Sept. 4 |
| Sept. 16 | Lewisburg, W. Va. Adv. Aug. 28. | Aug. 28 |
| Sept. 16 | Griffin, Ga. | Aug. 28 |
| Sept. 16 | New Mexico | Aug. 28 |
| Sept. 16 | Prosser, Wash. | Aug. 21 |
| Sept. 16 | New Orleans, La. | Aug. 21 |
| Sept. 17 | Rockwall, Tex. | Sept. 4 |
| Sept. 18 | Marion, Ark. | Aug. 21 |
| Sept. 20 | Madill, Okla. | Aug. 23 |
| Sept. 20 | Fayetteville, Ark. | Sept. 4 |
| Sept. 22 | Lyons, Kan. | Aug. 28 |
| Sept. 23 | Keyser, W. Va. Adv. Sept. 4. | Sept. 4 |
| Oct. 1 | Faribault, Minn. | Sept. 4 |
| Oct. 10 | Tacoma, Wash. Adv. Aug. 14. | Aug. 14 |

## EXCAVATION AND DREDGING

| | | |
|---|---|---|
| Sept. 8 | Albert Lea, Minn. | Sept. 4 |
| Sept. 9 | Niagara Falls, Ont. | Sept. 4 |
| Sept. 10 | Toms River, N. J. | Aug. 21 |
| Sept. 16 | Benson, Minn. | Sept. 4 |
| Sept. 18 | Montreal, Que. | Sept. 4 |
| Sept. 22 | Tower, Minn. | Aug. 21 |
| Sept. 22 | Duluth, Minn. | Sept. 4 |

## INDUSTRIAL WORKS

| | | |
|---|---|---|
| Sept. 8 | Denver, Colo. | Sept. 4 |
| Sept. 9 | Ft. Atkinson, Wis. | Sept. 4 |
| Sept. 10 | Two Rivers, Wis. | Aug. 28 |
| Sept. 11 | Chilton, Wis. | Sept. 4 |
| Sept. 15 | New York, N. Y. | Aug. 28 |
| Sept. 17 | Mont Alto, Pa. | Sept. 4 |

## BUILDINGS

| | | |
|---|---|---|
| Sept. 6 | Sheboygan, Wis. | Sept. 4 |
| Sept. 9 | Hamilton, Ont. | Sept. 4 |
| Sept. 9 | Hibbing, Minn. | Sept. 4 |
| Sept. 10 | Kings Park, N. Y. | Aug. 28 |
| Sept. 10 | Sheboygan, Wis. | Sept. 4 |
| Sept. 11 | Minneapolis, Minn. | Aug. 21 |
| Sept. 11 | Superior, Wis. | Aug. 21 |
| Sept. 12 | Cloquet, Minn. | Aug. 21 |
| Sept. 12 | Council Bluffs, Ia. | Aug. 28 |
| Sept. 15 | Pleasant Grove, Utah | July 24 |
| Sept. 15 | St. Paul, Minn. | Aug. 14 |
| Sept. 15 | Norwich, N. Y. | Sept. 4 |
| Sept. 15 | Salt Lake City, Utah | Sept. 4 |
| Sept. 16 | Bethlehem, Pa. | Sept. 4 |
| Sept. 16 | Framingham, Mass. | Sept. 4 |
| Sept. 20 | Cap de la Madeleine, Que. | Sept. 4 |
| Sept. 20 | Montevideo, Minn. | Sept. 4 |
| Sept. 20 | Elk City, Okla. | Sept. 4 |
| Sept. 22 | Holton, Kan. | Sept. 4 |
| Sept. 25 | Moncton, N. B. | Sept. 4 |
| Oct. 1 | St. Paul, Minn. | Aug. 28 |
| Oct. 1 | Virginia, Minn. | Aug. 28 |

## FEDERAL GOVERNMENT WORK

| | | |
|---|---|---|
| Sept. 8 | Hangar — Spec. 4001 — Lakehurst, N. J. | Aug. 21 |
| Sept. 8 | Post Office—Carroll, Ia. | Aug. 14 |
| Sept. 8 | Riprap — Tompkinsville, N. Y. | Sept. 4 |
| Sept. 9 | Forge Shop Extension, Shell and Case Shop Buildings—Philadelphia, Pa. Adv. Aug. 28. | Aug. 28 |
| Sept. 9 | Damp-Proofing — Washington, D. C. | Sept. 4 |
| Sept. 9 | Riprap — Tompkinsville, N. Y. | Sept. 4 |
| Sept. 10 | Post Office—Douglas, Ga. | July 31 |
| Sept. 10 | Water and Sewerage Systems and Fuel Oil Reservoir —Spec. 4007, San Diego, Cal. | Aug. 21 |
| Sept. 10 | Torpedo Track, Electric Trolley and Hoist and Gyro —Spec. 4008—Pearl Harbor, Hawaii | Aug. 28 |
| Sept. 10 | Structural Steel — Spec. 4023—Newport, R. I. | Sept. 4 |
| Sept. 11 | Earthwork — Memphis, Tenn. Adv. Aug. 21 | Aug. 21 |
| Sept. 11 | Levee Work — Memphis, Tenn. | Sept. 4 |
| Sept. 12 | Remodeling Electric Passenger Elevator — Chicago, Ill. Adv. Aug. 21. | Aug. 21 |
| Sept. 12 | Pumps — New Haven, Conn. Adv. Aug 21 | Aug. 21 |
| Sept. 15 | Earthwork—St. Louis, Mo. Adv. Aug. 21 | Aug. 21 |
| Sept. 15 | Post Office—Winnemucca, Nev. Adv. Aug. 21 | Aug. 21 |
| Sept. 15 | Kitchen and Mess Hall — Stapleton, N. Y. Adv. Aug. 21. | Aug. 21 |
| Sept. 17 | Development of Base — Spec. 3762 — Key West, Fla | Aug 28 |
| Sept. 17 | Turbo Generator — Spec. 4017—Portsmouth, N. H. | Sept. 4 |
| Sept. 17 | Turbo Alternator — Spec. 4011—Charleston, S. C. | Sept. 4 |
| Sept. 18 | Dredging—Newport, R. I. | Sept. 4 |
| Sept. 18 | Sewerage System—Water Service Lines and Electric Lighting Plant—Washington, D. C. | Aug. 28 |
| Sept. 18 | Jetty Repair — Wilmington, Del. Adv. Aug. 21 | Aug. 21 |
| Sept. 18 | Post Office—North Topeka, Kan. | Aug. 14 |
| Sept. 22 | Material — Charles Town, W. Va. | Aug. 21 |
| Sept. 22 | Post Office — Charleston, W. Va. | Aug 21 |
| Sept. 24 | Mechanical Stokers—Spec. 4010—Charleston, S. C. | Aug. 28 |
| Sept. 24 | Reciprocating Air Compressor — Spec. 3837 — Puget Sound, Wash. | Aug. 28 |
| Sept. 26 | Post Office and Custom House—Providence, R. I. Adv. Aug. 21. | Aug. 21 |
| Sept. 29 | Dredge, etc.—Wilmington, N. C. Adv. Aug. 28. | Aug. 28 |
| Sept. 30 | Remodeling Hospital—Boston, Mass. | Aug. 28 |
| Sept. 30 | Dock—Charleston, S. C. | Sept. 4 |
| Sept. 30 | Hospital — Spec. 3931 — Pearl Harbor, Hawaii | Sept. 4 |
| Sept. 30 | Rubble Mound Breakwater Cleveland, O. | Sept. 4 |
| Oct. 1 | Valves, Gates, etc.—Denver, Colo. Adv. Aug. 21. | Aug. 21 |
| Oct. 1 | Electric Lighting and Power Systems—Spec. 3982—Mare Island, Cal. | Aug. 28 |
| Oct. 6 | Post Office—St. Johnsburg, Vt. | Aug. 28 |
| Oct. 10 | Dredge—New York, N. Y. Adv. Aug. 28 | Aug. 28 |
| Oct. 10 | Post Office—Lock Haven, Pa. | Sept. 4 |
| Nov. 3 | Post Office and Court House —Honolulu, H. T. | Aug. 21 |

## MISCELLANEOUS

| | | |
|---|---|---|
| Sept. 8 | Garbage Incinerator—Syracuse, N. Y. | Sept. 4 |
| Sept. 9 | Street Lighting System — Dell Rapids, S. D. | Aug. 28 |
| Sept. 10 | Wharf—Las Pas, Man. | Sept. 4 |
| Sept. 12 | Dam—Decatur, Ill. | Aug. 14 |
| Sept. 12 | Wharf — Depot Harbor, Ont. | Sept. 4 |
| Sept. 15 | Levee—Alexandria, La. | Aug. 14 |
| Sept. 16 | Breakwater—Petit Rocher, N. B. | Aug. 28 |
| Sept. 17 | Wharf—Meteghan, N. S. | Aug. 28 |
| Sept. 17 | Breakwater—Quaco, N. B. | Aug. 28 |
| Sept. 17 | Breakwater — Whitepoint, N. S. | Sept. 4 |
| Sept. 22 | Wharf—Naramata, B. C. | Aug. 28 |
| Sept. 23 | Turbines, etc.—Saskatoon, Sask. Adv. July 24. | July 24 |

**Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.**

# Waterworks

## PROPOSED WORK

**Fla., Miami**—City election Oct. 16 to vote on $35,000 bonds to build high-pressure pumping station water mains.

**O., Ansonia**—City receives bids about Sept. 10 building water system and light plant. About $45,000. G. L. McKibben, Van Wert, consult. engr.

**In., Ladora**—City voted $18,000 bonds to build waterworks system.

**Minn., Clearwater**—See "Sewers."

**N. D., Minot**—City election Sept. 29, to vote on $280,000 bonds to build Imhoff tank and sewerage system. E. J. Thomas, Minot, engr.

**Okla., Ada**—City election Sept. 18, to vote on $335,000 bonds to extend and improve waterworks and sewerage systems.

**Okla., Newkirk**—City voted $70,000 bonds to extend waterworks.

**Okla., Okmulgee**—City soon receives bids improving waterworks system. About $200,000. Burns & McDonnell, 400 Interstate Bldg., Kansas City, Mo., engrs.

**Okla., Paul's Valley**—City election in September to vote on $20,000 bonds to drill deep wells.

**Colo., Denver**—Municipal Waterworks Dept. receives bids in about 10 days laying 2½ mi. 20-24 in. c.i. pipe, same being extension from 27th and Staut Sts. to Stock Yards. About $150,000. B. Lawther, c/o Owner, engr.

**Utah, Salt Lake City**—City soon lets contract laying 2130 ft. 16 in., 1200 ft. 20 in., 2300 ft. 24 in. and 8794 ft. 30 in. c.i. pipe on pressure line in Sunnyside Ave. About $182,000. S. Q. Cannon, city engr.

**Wash., Wenatchee**—City Council having plans prepared extending waterworks system. About $50,000.

**Ore., La Grande**—City retained L. C. Kelsey, engr., Portland, to prepare plans and supervise construction for new concrete dam at Beaver Creek intake for extension of water system. Cost will exceed $5000.

## BIDS DESIRED

**N. J., Kearney**—Until Sept. 9, by F. Bent, state archt., State House, Trenton, furnishing material and erecting water tower and tank, at Soldiers' Home, here. About $5000.

**N. J., Pitman**—Until Sept. 15, by Boro. Council building improvements to water distribution system, Contr. No. 1, involves steel standpipe 20 ft. in diameter and 125 ft. high, Contr. No. 2, foundation for standpipe, Contr. No. 3, furnishing 337 tons 4-8 in. c.i. water pipe, 20,383 lb. specials, 13 fire hydrants and 27 valves, Contr. No. 4, laying 3.3 mi. 4-8 in. c.i. water pipe, Contr. No. 5, building 1 or more artesian wells. Remington & Vosbury, 601 Market St., Camden, engrs; advertised in this issue; noted July 31.

**N. J., South Amboy**—Until Sept. 16, by city, furnishing, delivering and erecting complete mechanical equipment of artesian waterworks plant, including new buildings for housing machinery and boilers, pumping station with boiler house annexed, radial brick stack and foundation, concrete reservoir and pump sump, concrete foundations for buildings, machinery, boilers, floors, etc., 2 watertube boilers and stack breeching, 1 duplex triple expansion, direct-acting pumping engine, 1 duplex compound direct-acting pumping engine, 2 turbine pumps, motor driven, vertical type, 1 cross-compound steam, 2 stage air compressor, 1 single stage, straight line air compressor, 1 surface condenser with combined air and circulating pump, 1 boiler feed pump, 2 feed water heaters, 1 venturi water meter, steam and exhaust connections to boilers and machinery, suction and discharge mains to pumps and reservoir, water discharge mains from pumps to existing standpipe, water mains from standpipe to existing distributing system, air lift system for 3 artesian wells and collecting system for spring water. P. J. Coakley, clk.

**N. C., Williamston**—Until Sept. 9, (change of date) by Mayor, building complete waterworks and sewerage systems. About $50,000. J. N. Ambler, Richmond, Va., engr. Noted Aug. 21.

**S. C., Lake City**—See "Sewers."

**Mich., Algonac**—Until Sept. 8, by K. A. Houlter, village pres., furnishing labor and material laying 450 ft. 16 in. waterworks intake, to include wet well, screens, screen house, gates, foot valves, venturi meter, etc., also 3 horizontal motor-driven centrifugal pumping units.

**Wis., Viroqua**—See "Sewers."

**Minn., Mountain Lake**—Until Sept. 9, by H. C. Hanson, village clk., installing motor-driven, double-stroke, deep well pump.

**N. D., Grand Forks**—Until Sept. 10, by City Council, repairing roof over clear water basin at 3rd St. and Minnesota Ave., rein.-con. water-proof. About $13,000. C. S. Giles, 909 North 3rd St., engr.

**Utah, Paradise**—Until Sept. 9, by City Council, building waterworks system and storage reservoir, involving 13 mi. 1-6 in. steel pipe, 200 cu.yd. earth excav., etc. T. H. Humphries, Logan, engr.

**Ont., Hespeler**—Until Sept. 7, by H. Johnston, engr., Kitchener, and M. E. Jardine, city clk., furnishing and laying 5448 lin.ft. 6-12 in. c.i. watermains. About $22,000.

**Ont., York**—Until Sept. 6, by F. Barber, twp. engr., 40 Jarvis St., Toronto, furnishing and laying 27,600 lin.ft. c.i. watermains in sections of Amherst, Jesmond, Ashbury, Roach, Humewood, Craydon, Ray, Rutherford, Eglinton, Brownhill, Barr, Elora, Bushey, Jasper, Langden, Orla, Chryessa, Gray, Outlook, Lauder, Mitchell, Northland, Lavina, Ostend Aves., Victoria Humber Crest and Northcliffe Blvds., Cliff, Lapp, Spears, McCormack Sts. About $100,000. Noted Aug. 28.

## PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

**Mass., Boston**—City received bids Aug. 22, installing new sluice gates, air rams and counterweights at Moon Island reservoir, Squantum Dist., from Coleman Bros., Chelsea, $16,860; Coffin Valves Co., Neponset St., $16,860; G. H. Bryne, 166 Devonshire St., $18,055.

**★N. Y., Rochester**—Bd. Contr. & Supply let contract laying 36 in. watermain across Genessee River on McLean Pl., to M. H. Ripton, Livingston Bldg., $21,003.

**★Pa., Osceola Mills**—Osceola Water Co. let contract constructing elevated steel tower, in connection with waterworks system, to Pittsburgh Des Moines Steel Co., Curry Bldg., Pittsburgh.

**★O., Bucyrus**—Bucyrus Development Co. let contract to Rust Eng. Co., Keenan Bldg., Pittsburgh, building 500,000 gal. rein.-con. reservoir and earth dam for impounding reservoir, for Bucyrus waterworks. About $63,000. Chester & Fleming, Union Bank Bldg., Pittsburgh, engrs.

**Minn., Duluth**—City received bids building rein.-con. reservoir, from G. H. Lounsberry, 322 East Superior St., $13,570; Jacobsno Bros., Columbia Bldg., $14,000; MacLeod & Smith, Sellwood Bldg., $14,500.

**★Minn., Litchfield**—City let contract building 7880 lin.ft. 8 in. and 2235 ft. 10 in. water mains in various streets, to E. Linhordt, Litchfield, $13,086.

**★Minn., Walker**—State Bd. Control, St. Paul, let contract extending water supply system, to Woodrich Constr. Co., Metropolitan Life Bldg., Minneapolis, $25,558; heating system in connection with above will be awarded later.

**★Colo., Denver**—Municipal Water Wks. Dept. will replace conduit on 29th Ave. from Lowell Blvd., to Ashland Ave. Sta., about 2½ mi., involving 7000 ft. 36 in., c.i. pipe. About $171,000. Work will be done by day labor.

# Sewers

## PROPOSED WORK

**N. J., Hoboken**—City had plans prepared and soon receives bids building sewers in 7th, 11th and 15th Sts. About $100,000.

**N. J., Newark**—Passaic Valley Sewerage Comn. soon lets contract building superstructure for Venturi Meter Chamber, also building superstructure for effluent controlling chamber.

**Pa., Carmichaels**—Town voted $14,300 bonds to install sewers and pave various streets.

**Pa., Haselton**—See "Streets and Roads."

**N. C., Raleigh**—City plans to install sewer pipes in various sections. About $20,000. E. H. Paco, city comr.

**Fla., Miami**—City election Oct. 16 to vote on $50,000 bonds to build sewage disposal system.

**O., Dayton**—City plans election soon to vote on $628,000 bonds to build storm sewers in Miami & Erie Canal, Baker, Troy and Campbell Sts., Kenwood, Earnest, Euclid, Norwood and Lorain Aves., and Dry Creek Hollow. O. E. Eichelberger, city engr.

**Minn., Clearwater**—City plans to build sewers and water mains in various streets. About $70,000. Bradley Eng. Serv., St. Cloud, engr.

**Minn., Duluth**—City soon receives bids building sewer in 2nd Ave. between Michigan St. and Lake Ave. About $10,933. L. Ayers, city engr.

**Minn., Luverne**—City voted $24,000 bonds to build storm sewers in various streets. W. Bauer, city clerk.

**Kan., Belle Plaine**—City Clerk soon lets contract building 6¾ mi sewers and sewage disposal plant. W. B. Rollins Co., 209 Ry. Exch. Bldg., Kansas City, Mo., engrs. Noted Aug. 21.

**Neb., Fairbury**—See "Streets and Roads."

**Okla., Ada**—See Waterworks."

**Wash., Wenatchee**—City Council having plans prepared building sewers in 4 areas in southern part of city. About $200,000.

## BIDS DESIRED

**N. J., Irvington**—Until Sept. 8, by Town Council, building trunk line storm water sewerage system, involving 4460 lin.ft. 48-84 in. and 1160 ft. 5 x 7 ft. sewer, 12 storm sewer manholes, 1480 lin.ft. 3-15 in. sanitary sewer, 1 sanitary sewer drop manhole, 6 sanitary sewer manholes, 3 flush tanks, 1000 cu.yd. concrete foundation, 5000 ft. b.m. spruce timber, 5000 ft. b.m. hemlock, 500 cu.yd. solid rock and 2700 cu.yd. quicksand excav.; lateral branches involving 6010 lin.ft. 15-36 in. sewer, 28 manholes, 43 catch basins, 1000 lin.ft. 12 in. and 600 lin.ft. 12 in. catch basin chutes, 500 cu.yd. rock and 5000 cu.yd. quicksand excav., 1000 ft b.m. spruce timber and 3000 ft. b.m. hemlock sheeting.

**S. C., Lake City**—Until Sept. 16, by J. R. Truluck, chn. pub. wk., building sewerage and waterworks system; advertised in this issue.

**Miss., Drew**—Until Sept. 18, by City Council, building 4.7 mi. 8-12 in. sanitary sewers, pumping station and disposal plant. J. H. Weatherford, 64 Porter Bldg., Memphis, Tenn., engr.

**La., Alexandria**—Until Sept. 15, by City Council, building extension to sanitary sewerage system; separate proposals being taken on sewer pipe required which will be purchased directly by city and on construction work of pipe laying, trenching and constructing manholes, flush tanks, etc. Work involves 84,690 ft. 8-24 in. pipe, 110 manholes, 46 flush-tanks. I. W. Sylvester, city engr.

**Wis., Viroqua**—Until Sept. 8, by E. J. Older, city clk., laying 906 ft. 10 in. and 238 ft. 8 in. vitr. pipe sewers, 1575 ft. 6 in. sewer connections, 4 manholes, 59 lead service connections, etc.; also laying 1300 ft. 8 in. and 48 ft. 6 in. water pipe, 4 hydrants and 5 valves. W. G. Kirchoffer, Vroman Blk., Madison, engr.

**Minn., Foley**—Until Sept. 11, by H. Betendorf, village clk., building sewerage system and disposal plant, involving 4188 lin. ft. 8-18 in. salt glazed vitr. pipe, twenty-six 5 ft. catch basins, one 3 ft manholes, one hundred and seventy-nine 6 x 10 Y's and fifteen 6 x 18 Y's. About $13,400. Noted Aug. 7.

**Minn., Ivanhoe**—Until Sept. 8, by village installing sewers in Sewer Dists. Nos. 2, 3 and 4. L. B. Muchlinski, recdr.

**Minn., Lamberton**—Until Sept. 9, by F. A. Beisersdorf, city recdr., installing sewers in various streets, involving 13,823 ft. 8 in., 1471 ft. 10 in., and 1875 ft. 12 in. vitr. pipe, 10 lampholes, 5 manholes, etc. About $30,000. Noted Aug. 7.

## PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

**★Mass., Boston**—City let contract laying 308 ft. 3-6 in. concrete sewer in Albany St., to J. W. O'Connell Co., Boston. $14,157. Work involves 700 cu.yd. earth trenching.

**N. Y., New York**—H. Bruckner, pres. Bronx Boro., received bids Aug. 28, building (a) storm water drain and appurtenances in East 233rd St., (b) combined sewers and appurtenances in Eden Terrace, etc., from Fenlack Constr. Co., (a) $125,213, (b) $122,534; J. O'Leary, (a) $136,909; Anita Constr. Co., (a) $147,000, (b) $140,500; C. MacDonald, (b) $122,999. Noted Aug. 21.

Sewers (Continued)

★N. Y., Rochester—Bd. Contr. & Supply let contract building new sewage disposal plant in 23rd Ward, to Whitmore, Rauber & Vicinus, 279 South Ave., $49,927. Noted May 1.

N. J., Hackensack—Hackensack Impvt. Comn. received bids building (a) disposal plant, (b) sewerage system, from Simpson & Brown, 90 West St., (a) $974,176; Smith, Hauser & McIsaac, 18 East 41 St., (a) $774,402, (b) $1,197,021; H. E. Fox Constr. Co., 18 East 125th St., (b) $602,339. Noted July 24.

★O., Cleveland—City let contract laying 3120 ft. 3-6 ft. 3 in. brick and 660 ft. 12-24 in. vitr. pipe sewers in Kinsman Rd. from East 135th to East 140th Sts., to Manson Co., The Arcade, $75,771. Noted Aug. 28.

★Mich., Redford—B. E. Taylor, 501 Ford Bldg., Detroit, let contract trenching and laying 35,000 lin.ft. 8-24 in. vitr. crock sewers, etc., in vicinity of Grand River Ave., here to W. C. Hoy, Redford. About $35,000.

★Wis., Manitowoc—City let contract excavating and laying 2.8 mi. 8 in. vitr. pipe sewer in 8th, 16th and Washington Sts., to Gray-Robinson Co., 8th St. About $20,000. Noted Aug. 28.

★Minn., Waseca—J. Madigan, city clk., let contract laying 14,894 ft. tile drain, to W. C. Johnston, Jr., Waseca, $12,597. Noted July 24.

★Mont., Shelby—City let contract installing sewage disposal plant and 10 in. sewer extensions, to Two Miracle Concrete Co., 437 Ford Bldg., Great Falls, $10,450 and $25,289 respectively.

## Bridges

### PROPOSED WORK

New Jersey—State Highway Comn., Broad St. Bank Bldg., Trenton, rejected bids building following rein.-con. bridges, two 10 x 30 ft., one 15 x 30 ft and one 13 x 30 ft., Hammonton-Ancora-Atco Sect. Work will be readvertised. C. A. Mead, 790 Broad St., Newark, engr. Noted Aug. 7.

Pa., Lewistown—City plans to build 80 ft. span bridge, 55 ft. wide, on South Main St., probably deck girder type, concrete floor. About $40,000. C. C. Brown, Reedsville, engr.

W. Va., Kingwood—Comrs. Preston Co. soon let contract building following rein.-con. girder bridges: 1 double 26 ft. span, 1 single 26 ft. span, two 24 ft. spans, one 20 ft. span and one 16 ft. span. About $10,000. H. E. Wilhelm, Kingwood, engr.

Ga., Chatsworth — See "Streets and Roads."

Ga., Newton—Baker and Mitchell Counties appropriated $15,000 each to build bridge across Flint River, here. Federal Government will appropriate an additional $30,000 for project.

Fla., St. Petersburg—City plans to build new bridge over Booker Creek, on West Central Ave. About $15,000.

O., Dayton—City plans election soon to vote on $120,000 bonds to build 2 bridges over Wolf Creek on Bway. and Deal St. O. E. Eichelberger, city engr.

Idaho, Lewiston — See "Streets and Roads."

### BIDS DESIRED

W. Va., Fayetteville—Until Sept. 8, by R. J. Stegall, clk., Fayette Co. building two 60 ft. concrete arch bridges near Westerly; two 25 ft. slab bridges near Dempsey and one 40 ft. timber bridge near Lively. J. K. McGrath, co. rd. engr.; advertised in this issue.

W. Va., New Martinsville—Until Sept. 13, by S. Myers, clk. Wetzel Co., building 5 concrete bridges, 3 in Magnolia Dist., 2 in Grant Dist. and 1 in Center Dist. G. W. Comstock, co. rd. engr.

Ga., Dublin—Until Sept. 16, by Comrs. Laurens Co., building steel and concrete bridge across Oconee River, here. About $150,000. Federal Government will appropriate ½ of cost. Noted Feb. 6.

Ga., Gainesville—Until Sept. 8, by Comrs. Rds. & Revenues, Hall Co., building bridge over Chattahoochee River, 4½ mi. west of Lula. Contract will be let for steel bridge upon present stone piers, but same to be remodeled or cemented where needed and raised 5 ft. higher by cement caps to be 5 ft. thick and 18 ft. long, two 113 ft. spans, and two approaches, 80 ft. and 100 ft. long respectively.

Mich., Port Huron — See "Streets and Roads."

Illinois—Until Sept. 10, by Dept. Pub. Wks. & Bldgs., Springfield, building Mackinaw River Bridge, on Peoria-Springfield Highway, Tazewell Co., consisting of seven 50 ft. concrete spans and one 170 ft. steel span, 20 ft. roadway, involving 832 cu.yd. Class "A" and 713 cu.yd. Class "B" concrete, 163,630 lb. reinforcing steel, 6629 lb. rockers and plates, 151,800 lb. structural steel, 5085 lin.ft. untreated piles, etc. Cement to be furnished by state. About $54,154, excluding cement. C. Older, ch. highway engr.

Ill., Pittsfield—Until Sept. 13, by Pike Co., building two 10 ft. span and one 22 ft. span bridges, involving 152 cu.yd. concrete and 15,245 lb. reinforcing steel. G. Lyons, co. supt. highways. Noted July 17.

Wash., Tacoma—Until Sept. 13, by Comrs. Pierce Co., building four 100 ft. Howe truss bridges over South Prairie Creek on section of Pioneer Way known as Bond Issue Proposition No. 9. C. A. Campbell, co. aud. and clk.

### PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Tex., Abilene—Taylor Co. let contract building two 50 ft. steel span bridges, 16 ft. wide, with rein.con. approaches on Highway No. 1, to Austin Bros., 1815 Coombs St., Dallas, $12,767. Work involves 35,200 lb. structural steel, 1024 lb. reinforced steel, 409 cu.yd. classes A, B and C concrete, etc.

★Tex., Seguin—Guadalupe Co. let contract to A. D. McClain & Co., Houston, building 3 bridges on Highway No. 3, one 100 ft. span, 3 panels of I-beam approaches 20 ft. each, over Geronimo Creek, one 60 ft. steel span, 2 panels of I-beam approaches 20 ft. each and one 50 ft. steel span, all to be built on concrete piers, 18 ft. roadway. About $22,500.

Utah, Salt Lake City—City received bids building 68 ft. rein.-con. arch bridge on 5th South St., over Jordan River, from Steel Constr. Co., Salt Lake City, $24,317, A. J. Gillis, Kearns Bldg., $30,588, Schuler & Sornson, Salt Lake City, $31,208; 48 ft. rein.-con. arch bridge on 4th South St., over Jordan River, from Steel Constr. Co., Salt Lake City, $22,115, Midland Bridge Co., Salt Lake City, $27,714, A. J. Gillis, Kearns Bldg., $28,647. Noted Aug. 21.

★Wash., Chelan Station (Chelan P. O.)—Wernatchee-Beebe Orchard Co. let contract building piers for 630 ft. span bridge with 650 ft. approach to McRae Bros., Amer. Bank Bldg., Seattle. Work on superstructure will be done by day labor. Total cost, $75,000.

## Structural Steel

### BIDS DESIRED

Ga., Gainesville—See "Bridges."

### PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Pa., Osceola Mills—See "Waterworks."

★Pa., Pittsburgh — See "Industrial Works."

## Reinforced Concrete

### PROPOSED WORK

Ont., Toronto—See "Industrial Works."

### BIDS DESIRED

Ga., Dublin—See "Bridges."

### PRICES AND CONCRACTS AWARDED

(★Indicates award of conract)

★Pa., Phila.—See "Industrial Works."

## Streets and Roads

### PROPOSED WORK

New Jersey — State Highway Comn., Broad St. Bank Bldg., Trenton, rejected bids resurfacing 13.170 cu.yd. Brown's Mills-Lakehurst Rd., Burlington Co. Work will be readvertised. Noted Aug. 14.

Pa., Hazelton—City plans election to vote on $750,000 bonds to improve streets, sewers and schools. J. Rough, city engr.

Pa., Turtle Creek—City rejected bids paving Greensburg and Penn Aves. Noted Aug. 14.

Pa., York—York Co. voted $2,500,000 bonds to build roads. Noted July 24.

Virginia—State Highway Comn., Richmond, soon lets contract building 6.25 mi top soil road between Willis Mountain and Shepherd's Store, Project No. 39, Buckingham Co.; 11 mi. gravel road from Burrowsville to Spratley's Store, Project No. 58, Prince George Co.

W. Va., Morgantown—Monongalia Co. rejected bid paving 4½ mi. road from Maidsville Landing to Pennsylvania State line. County will probably do work.

W. Va., Wheeling—City soon lets contract paving 40,000 sq.yd. 16th, South, Eoff and North Huron Sts., 4 in. vitr. block on 6 in. concrete base, with 2 in. cement and sand cushion. H. A. Conrad, city engr.

N. C., Gastonia—Gaston Co. voted $500,000 bonds to improve road.

S. C., Chester—City plans election to vote on $140,000 bonds to pave various streets.

Ga., Chatsworth—Murray Co. voted $100,000 bonds to build roads and bridges. E. V. Camp, Atlanta, consult. engr. Noted July 10.

Ga., Sulphur Springs—W. C. Beck, chn. good rds. com., soon lets contract building 1½ mi road leading from here to top of Lookout Mt., all hillside work, 16 ft. roadbed, 10% grade.

Ga., Trenton—Dade Co. voted $40,000 bonds to repair road from Sulphur Springs to Alabama line and from Wildwood to Tennessee line. State will appropriate $44,000 for project.

Ala., Troy—City Council plans to pave 1 mi. North Three Notch St from end of present pavement to Cemetery St., vitr. brick.

La., Colfax—Grant Co. voted $210,000 bonds to build and complete roads. Noted July 31.

La., Columbia—Comrs. Caldwell Co. plan to issue $500,000 bonds to build roads.

La., Gretna—Comrs. Jefferson Co. received no bids paving various streets. Noted Aug. 7.

La., Pointe a la Hache—Comrs. Plaquemines Parish plan election Sept. 10 to vote on $50,000 bonds to build roads in Dist. No. 1.

Ky., Mt. Sterling—City plans to pave Samuels Ave., West High St., to point beyond Antwery Ave., West Main St. to city limits, East Locust to Queen St., West Locust to Richmond Ave. and Richmond Ave. between Locust and Main Sts.

Ohio—State Highway Comn., Columbus, rejected bids received Aug. 5, resurfacing Sects. "J," "G" and "G-2" Cleveland-Wooster Rd., bituminous concrete, Cuyahoga Co. Work will be readvertised.

O., Dayton—City plans to pave 1200 ft. Forest Ave. from Lehman to Neal Sts., 40 ft. wide, involving 5000 sq.yd. wood block on concrete base. About $20,000. O. E. Eichelberger, city engr.

O., Toledo—City plans to pave 2965 ft. Dorr St., 38 ft. wide, involving 7556 sq.yd. vitr. brick, 5435 lin.ft. curbing and 6763 cu.yd. earth excav., cost $59,154; 1354 ft. Wayne St. from Andora Dr. to Westwood Ave., 30 ft. wide, 4170 sq.yd. vitr. brick, 2396 lin.ft. curbing and 1800 cu.yd. excav., $29,574. H. C. McClure, city engr.

Indiana — State Highway Comn., Indianapolis soon lets contract grading and paving with (a) brick, (b) concrete, (c) bituminous concrete, 8.4 mi. road from Franklin to Greenwood, Johnson Co., (a) $423,975, (b) $315,343, (c) $212,308; 4.6 mi. Natl. Rd. from Illinois state line to West Terre Haute, Vigo Co., (a) $240,214, (b) $172,102, (c) $212,308; 10.2 mi. French Lick Rd. from Vanderburg Co. line to Boomville, Warwick Co., (a) $750,896, (b) $438,776 (c) $550,172; 12.4 mi. French Lick Rd. from Orange Co. line to Bedford, Lawrence Co., (a) $683,270, (b) $504,500, (c) $660,000; 11.3 mi. Lincoln Highway from Shenville to Horter Co. line, Lake Co., (a) $577,313, (b) $418,425, (c) $547,218; 7 mi. Range-Line Rd. (a) $402,-

Streets and Roads (Continued)

947, (b) $234,313, (c) $369,534; 2.9 mi. Ranger-Line Rd., from Center Twp., line to Miami Co. line, (a) $177,108, (b) $123,034, (c) $160,650. H. K. Bishop, c/o State Highway Dept., engr.

**Michigan**—State Highway Dept., Lansing, soon lets contract snaping, surfacing and building drainage structures on 7.532 mi. State Trunk Line Rd. No. 18-8, Arenac Co., involving 70,699 sq.yd. gravel and 25,197 cu.yd. earth excav.; 3.407 mi. State Trunk Line Rd. No. 13-11-B, Charlevoix Co., 31,982 sq.yd. gravel, 194 cu.yd. concrete and 20,622 cu.yd. earth excav.; 2.950 mi. State Trunk Line Rd. No. 12-7, and 1.478 mi. State Trunk Line Rd. No. 12-8, Menominee Co., 41,556 sq.yd gravel and 34,395 cu.yd. earth excav.; 2.027 mi. State Trunk Line Rd. No. 17-1, Jackson Co., 113 cu.yd. concrete and 11,892 cu.yd. earth excav.

**Mich., Detroit**—Dept. Pub. Wks. soon lets contract paving with asphaltic concrete on 6 in. base, with Berea, Medina or Amherst curbstone, Apple St. from St. John St. to Michigan Ave., Central Ave. from McGraw to Badcliffe Aves., Eastlawn Ave. from Kercheval to Charlevoix Aves., Fulton Ave. from Springwells to Willsie Aves., Helen Ave. from Strong to Miller Aves. and from Harper to Strong Aves., Homer Ave. from Springwells to Lawndale Aves., Hazlett Ave. from Milford to Tireman Aves., Marquette Ave. from 16th St. to Lawton Ave., Parkdale Terrace from McGraw to Warren Aves., Radcliff Ave. from Central Ave. to Lonyo Blvd., Springwells Ave. from Malta to Michigan Aves., 26 ft. wide, involving 27,053 cu.yd. excav., 37,082 lin.ft. curbstone, 51,183 sq.yd. paving, 990 cu.yd. concrete, and 2155 ft. retaining stone. C. W. Hubbell, city engr.

**Wis., Manitowoc**—City plans to grade and pave 1.2 mi. Huron and 8th Sts., 20 ft. wide, brick or concrete, combined curb and gutter. About $15,000.

**Neb., Fairbury**—City retained C. McCrae, engr., Republic Bldg., Kansas City, Mo., to prepare plans for paving 100,000 sq.yd. streets, also to improve storm sewers. About $500,000.

**Wyoming**—State Highway Comn., Cheyenne, plans to gravel 10 mi. Big Goose Creek Rd., Sheridan Co. About $100,000. J. E. Jellick, Sheridan, engr.

**Montana**—State Highway Comn., Helena, plans to gravel surface 3 mi. Marion Rd., Flathead Co. About $10,900. Federal Aid applied for. J. N. Edy, state highway engr.

**Tex., Anahuac**—Chambers Co. plans to improve, drain, grade, mud or clam shell surface 12 mi. highway No. 35 from here to Liberty Co. line 12 ft. wide. About $66,000. H. P. Compton, Liberty, engr.

**Tex., Falfurrias**—Brooks Co. rejected bid received excavating, grading, sub-grading, caliche surfacing, etc., 10.75 mi. Highway No. 12. About $31,701. H. S. Bedell, Falfurrias, engr. Noted Aug. 14.

**Tex., Port Lavaca**—Calhoun Co. plans to clear, grub scarify, reshape, shell surface and build trestle on 4.621 mi. Highway No. 29, from here to Wittnebert Gate, 24 ft. wide. About $13,663. R. H. Phillips, Nat'l. Bank of Commerce, San Antonio, engr. Noted Jan. 30.

**Tex., Seguin**—Comrs. Guadalupe Co. soon let contract grading, surfacing and building drainage structures on 14.6 mi. Highway No. 3, west from here, 15 ft. wide. About $69,957. Hess & Skinner, South Western Life Bldg., Dallas, engr. Noted June 19.

**Tex., Uvalde**—Uvalde Co., Sabinal and Utonia Precincts, voted $200,000 bonds to build State Highways Nos. 3, 4 and 30, etc. This is in addition to $250,000 bonds previously voted.

**Okla., Sapulpa**—Creek Co. election Sept. 9, to vote on $1,000,000 bonds to build roads.

**Idaho, Boise**—W. J. Hall, comr. pub. wks., soon lets contract paving 3.6 mi. Fort Hall-Gibson Sect. of Yellowstone Park Highway.

**Idaho, Lewiston**—Nez Perce Co. election Oct. 7 to vote on $400,000 bonds to build and improve roads and bridges.

**Utah, American Fork**—City soon lets contract paving 30,000 sq.yd. various streets, with 7 in. rein.-con. on 6-in. concrete base with 2 in. tooping. About $125,000. Huddleston & Fiero, Kearns Bldg., Salt Lake City, engrs.

**Washington**—State Highway Bd., Olympia, completed preliminary survey of Ocean Beach Highway from Coal Creek west of Kelso through Cowlitz and Wahkiakum Counties. An appropriation of $35,000 will be available for construction work in Cowlitz Co. next year and a contingent appropriation of $75,000 will be available for work in Wiahkiakum Co. C. Signer, state highway engr. R. M. Gillis, Kelso, dist. engr.

**Wash., Tacoma**—City soon receives bids paving Pacific Ave. from 24th to 96th Sts., 12 ft. wide. About $150,000. Bids will be received on all standard types of pavement. J. C. Manley, city engr.

**Ore., Beaverton**—City Council soon lets contract grading, draining and paving Watson St. from 1st to 4th Sts., concrete or asphaltic concrete. About $12,000. T. A. Garrow, 422 Northwestern Bank Bldg., Portland, city engr.

**Ore., Beaverton**—City Council soon lets contract grading, draining, curbing and paving Hamilton St. from Estes to Watson Sts., North Bway St. from Watson St. to Oregon Electric Depot crossing, concrete, asphaltic concrete or bitulithic. Cost to exceed $10,000. T. A. Garrow, 422 Northwestern Bank Bldg., Portland, city engr.

**Ore., La Grande**—City plans to pave M St. from 4th to Cedar Sts., also alley from 4th to Chestnut Sts. between Jefferson and Adams Sts., concrete or asphaltic concrete. About $10,000.

**Ore., Pendleton**—City Council approved plans to pave Garfield St., from Raley to Mark Sts., concrete. About $10,000. J. A. Fee, city atty.

**Ore., St. Helens**—City soon lets contract improving various streets. About $25,000. E. E. Quick, city recdr.

**Cal., San Bernardino**—Bd. Supervs. San Bernardino Co., soon receives bids paving 1 mi. Mt. Vernon Ave., 16 ft. wide, concrete. About $20,000. L. R. Lothrop, San Bernardino, engr.

## BIDS DESIRED

**Massachusetts**—Until Sept. 9, by State Highway Comn., Boston, for 2000 ft. asphalt macadam road, Lexington Twn., 4700 ft. macadam oil road, 18-22 ft. wide, Wrentham Twp., 9900 ft. macadam state road, 18-22 ft. wide, Norwell Twp. A. W. Dean, state highway engr.

**N. J., Highland Park** (New Brunswick P. O.)—Until Sept. 8, by L. K. Smith boro. clk., paving, grading and curbing 35,000 sq.ft. Lincoln and 1st Aves., involving 1600 bbls. cement, 850 cu.yd. stone or gravel and 500 cu.yd. sand. About $45,000. J. T. Hopkins, Highland Park, engr.

**N. J., Jersey City**—Until Sept. 9, by city, paving with granite blocks on present concrete foundation, Newark Ave. from Summit to West Side Aves., cost, $75,000; improving Danforth Ave. between Hudson Blvd. and West Side Ave., $36,152; improving Eastern Parkway between Ocean and Garfield Aves., asphalt on concrete base, $15,000. C. Van Keuren, city engr.

**Pa., Beaver Falls**—Until Sept. 8, by Town Council, paving 6th Ave. from 8th to 22nd Sts. Bids will be accepted on vitr. brick, cement and asphalt surface. J. P. Leaf, boro. engr.

**Maryland**—Until Sept. 9, by State Rds. Comn., 601 Garrett Bldg., Baltimore, paving 6 mi. highway from state road near Owensville toward Shadyside, 15 ft. wide, gravel, Federal Aid Project No. 34, Contr. AA-15, Anne Arundel Co.; 2 mi. highway from Beallsville toward Dickerson, 15 ft. wide, 3 ft. dirt shoulders, involving 8800 sq.yd. 6 in. concrete, Federal Aid Project No. 10, Contr. No. M-16, Montgomery Co. J. N. Mackall, state highway engr.

**Maryland**—Until Sept. 16, by State Rds. Comn., 601 Garrett Bldg., Baltimore, building 0.78 mi. highway through Manchester, Contr. No. C1-24, Carroll Co.; 3 mi. highway from Hughesville toward Benedict, gravel, Federal Aid Project No. 25, Contr. No. Ch-15, Charles Co. F. H. Zouck, chn.; advertised in this issue.

**Md., Belair**—Until Sept. 15, by Comrs. Harford Co., building 1¼ mi. state aid highway from Wilson's Corner to Streett's Gate, 15 ft. wide, concrete. J. N. Mackall, c/o State Rds. Comn., 601 Garrett Bldg., Baltimore, engr.

**W. Va., Keyser**—Until Sept. 23, by A. A. Jordan, clk. Mineral Co., building 12 mi. Ridgely-Alaska Rd., 16 ft. gravel surface roadway; advertised in this issue. Noted Mar. 27.

**W. Va., Wayne**—Until Sept. 8, by Comrs. Wayne Co. grading and draining 5 mi. Wayne-Kenova Rd. and surfacing 4 mi. Huntington-Kenova Rd., brick. About $70,000. H. A. Levering, Ceredo, engr.

**North Carolina**—Until Sept. 15, by State Highway Comn., Raleigh, building 4.5 mi. road, 18 ft. wide, in Granville Co., involving 52 sq.yd. class B concrete, 28,366 cu.yd. earth excav. and 1100 lin.ft. 12-18 in. vitr. pipe. About $15,000. W. S. Fallis, state highway engr.

**Fla., Quincy**—Until Sept. 16, by J. P. Smith, city clk., paving 27,000 sq.yd. various streets. J. B. McCrary, 3rd Natl. Bank Bldg., Atlanta, Ga., engr.

**Louisiana**—Until Sept. 8, by State Highway Dept., Maison Blanche Annex, New Orleans, graveling, ditching, etc., 13.85 mi. Port Allen-New Roads Highway, West Baton Rouge Parish, 20 ft. wide. D. Buie, state highway engr.

**Louisiana**—Until Sept. 8, by State Highway Dept., New Orleans, gravel surfacing and draining 19.8 mi. Alexandria-Oberlin Highway, Rapides Parish, 20 ft. wide, and 14.5 mi. Alexandria-Melville Highway, Rapides Parish, 20 ft. wide. No bids received on former advertisement. D. Buie, state highway engr. Noted Aug. 21.

**Indiana**—By Bd. County Comrs., building roads in following counties:

Sept. 12, Clark Co., Jeffersonville, building 14,361 ft. crushed stone road, Charlestown Twp., known as Charlestown and Lexington Rd. G. W. Stoner, co. aud.

Wells Co., Bluffton, building 13,172 ft. stone road, Jefferson Twp., known as J. W. Gibson et al. Rd.; 10,594 ft. stone road, Union Twp., 15,806 ft. stone road, Jefferson Twp., paving 1219 ft. concrete street, Uniondale Twp. C. F. Kain, co. aud.

Sept. 15, Montgomery Co., Crawfordsville, building 6710 ft. gravel road, on county line between Sugar Creek and Franklin Twps., known as Marion A. Davis Rd. W. F. Batman, co. aud.

Marion Co., Indianapolis, building .49 mi. road in Center Twp. known as O. Lee et al Rd., .61 mi. road, Warren Twp., known as J. W. Behrmann et al Rd., 1.12 mi. road, Franklin Twp., known as R. H. Collins et al Rd., 1.72 mi. road, Wayne Twp., known as A. L. Wisby et al Rd. L. K. Fesler, co. aud.

Sept. 18, Allen Co., Ft. Wayne, building 1.78 mi. road, Lake Twp., known as Vaghn Rd., 2.3 mi. road, Lake Twp., known as Butt Rd. A. C. McCoy, co. aud.

**Michigan**—Until Sept. 9, by State Highway Dept., Lansing, shaping, surfacing and building drainage structures on 2.596 mi. State Trunk Line Rd. No. 47-1, 16 ft. wide, involving 24,364 sq.yd. gravel and 6000 cu.yd. earth excav.

**Mich., Port Huron**—Until Sept. 8, by Comrs. St. Clair Co., furnishing labor and material building 4¼ mi. Assessment Dist. Rd. No. 5, Harris Rd., 9 ft. trench gravel, on 22 ft. grade, involving drainage ditches, culverts, bridges, etc. Noted July 31.

**Wisconsin**—Until Sept. 12, by State Highway Comn., Court House, La Crosse, improving Fountain City-Winona Rd., Buffalo Co., Federal Aid Project No. 87, involving 38,099 cu.yd. earth and 2619 cu.yd. rock excav., 357 cu.yd. Class "A" concrete, culverts and bridges, 133 sq.yd. concrete surfacing, etc.; Hunter's Bridge Rd., La Crosse Co., Federal Aid Project No. 52, 12,250 sq.yd. bituminous macadam surfacing. Noted Aug. 7.

**Wisconsin**—Until Sept. 12, by State Highway Comn., Spooner, improving Barron-Turtle Lake Rd., Barron Co., Federal Aid Project No. 101, involving 12 acres clearing and grubbing, 28,997 cu.yd. earth and 1985 cu.yd. borrow excav., 476 cu.yd. Class "A" concrete, culverts, bridges, etc.

**Minn., Faribault**—Until Oct. 1, by Comrs. Rice Co., improving Job No. 1903, State Rd. No. 1, 24 ft. wide, involving 71,223 cu.yd. excav., 15,077 cu.yd. gravel surfacing, culverts, etc., $400,000; Job No. 1904, State Rd. No. 16, 24 ft. wide, 46,892 cu.yd. excav., 8569 cu.yd. gravel surfacing, culverts, etc., $250,000. W. P. Chapman, Faribault, engr.

Streets and Roads (Continued)

**Minn., St. Louis Park**—Village Clerk receiving bids building 2442 sq.yd. sidewalks. About $12,000.

**Kan., Stafford**—Until Sept. 8, by city, furnishing labor and material building 4939 lin.ft. combined curb and gutter, 240 lin.ft. single curb, 132 lin.ft. double gutter, and 7034 lin.ft. 10-27 in. storm sewers. Archer & Stevens, New England Bldg., Kansas City, Mo., engrs.

**Kan., Washington**—Until Sept. 12, by city, paving and curbing 9 blocks various streets, involving 19,385 sq.yd. asphaltic concrete, brick or 2 course concrete. Black & Veatch, Interstate Bldg., Kansas City, Mo., engrs. Noted Aug. 28.

**Ark., Fayetteville**—Until Sept. 20, by Comrs. Rd. Impvt. District. No. 5 at office of Hamilton & Shreve, engrs., Fayetteville, building roads in district, Washington Co., involving 46,580 cu.yd. excav., 30,895 cu.yd. gravel, 264 cu.yd. Class A and 30 cu.yd. Class B concrete, 1732 lin.ft. 15-24 in. pipe and one 100 ft. steel span highway bridge; advertised in this issue.

**Tex., Rockwall**—Until Sept. 17, by Comrs. Rockwall Co., building concrete or monolithic brick road and rein.-con. drainage structures on 13.36 mi. Highway No. 1, from Dallas to Collin Co. lines, 18 ft. wide. About $544,000. J. Montgomery, Rockwall, engr. Noted Aug. 14.

**Okla., Pawnee**—Until Sept. 10, by City Clerk, building 18,000 sq.yd. concrete pavement with integral curb, grading, draining, etc. C. H. Mullins, city engr.

**Colo., Denver**—Until Sept. 10, by city, grading, curbing, and surfacing 50 blocks in Harmon Impvt. Dist. No. 1, a phalt, crushed slag, granite, on hard boulders, loam sand and gravel. About $167,261 Noted Apr. 17.

**Utah, Salt Lake City**—Until Sept. 10, by City Comn., paving 4410 ft. 8th South St from 3rd to 9th West Sts., also 4th West St. from 8th to 9th South Sts., 22 ft. wide, involving 8050 lin.ft. curb and gutter, 7 in. thick on rein.-con. pavement.

**Arizona**—Until Sept. 13, by T. Maddock, state highway engr., Phœnix, building Sect. 1 A Tucton-Florence Highway, involving 14,126 cu.yd. excav., 40,370 sq.yd. pavement and incidental drainage, etc.; advertised in this issue.

**Washington**—Until Sept. 15, by State Highway Bd., Olympia, clearing, grading and draining 12.2 mi Inland Empire Highway between Ellensburg and Roza, Kittitas Co.; 2.2 mi. Chelan-Okanogan Highway between Chelan and Chelan Falls, Post Rd. Project No. 45, Chelan Co.; 4.8 mi. Pacific Highway from Seattle north, King Co.; 3.6 mi. Natl. Park Highway between La Grande and Alder, Pierce Co., 2 mi. Olympic Highway from Forks south, Clallam Co.; grading, draining and surfacing 7.2 mi. Inland Empire Highway between Dayton and Delaney, gravel, Columbia Co.; 10.8 mi. Inland Empire Highway between Dodge and Central Ferry, Post Rd. Project No. 46, Garfield Co. J. Allen, state highway comr.

**Quebec**—Until Sept. 12, by M. Henry, engr., c/o Dept. Rds. Quebec, paving and ditching 5 mi. Concession Range and Main Rds., waterbound macadam on gravel base, St. Brigide Twp., $20,000; graveling and ditching 6 mi. Provincial Highway, 18 to 20 ft. wide, Hinchinbrooke Twp., $18,000.

**Ont., York**—Until Sept. 6, by F. Barber, twp. engr., 40 Jarvis St., Toronto, building 12,000 ft. concrete sidewalks 4 and 4½ ft. wide, on Bernice Crescent, Dennis, Gamble, McRoberts, Poulton and Torrens Aves., and 800 ft. tarvia pavement on concrete base, 16 ft. wide, on Westmount Ave. About $18,000. Noted Aug. 28.

## PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

**★Massachusetts**—State Highway Comn., Boston, let contract building 3700 ft. state road, Middleton Twp., involving 17,000 gal. bituminous macadam, 2500 cu.yd. excav. and 2900 ton broken stone, etc., to W. B. McIntosh, Wilmington, $24,374; 2900 ft., Charlton Twp., 1120 cu.yd. concrete, 1900 cu.yd. excav., 500 cu.yd. rock and 140 ft. 12 in. c.i. pipe, to C. Bianchi Co., Framingham, $21,945; 7100 ft., Leominster Twp., 42,000 gal. bituminous macadam, 1250 cu. yd. excav. and 1850 ton broken stone, etc., to D'Onfro Bros., Leominster, $31,278; 4000 ft., Agawam Twp., 28,000 gal. bituminous material, 1500 cu.yd. excav., 3000 cu.yd. stone fill and 2800 ton broken stone, to Luchini & Sons, Milford, $29,343.

**★Mass., Boston**—City let contracts paving 363 ft. roadway on Chelsea Bridge, involving 1614 sq.yd. creosote block, to Standard Eng. Co., 15 Northern Ave., $13,-621; Fayette Ave., 3500 sq.yd. bituminous macadam and 1870 cu.yd. excav., to J. Doherty Co., Boston, $10,229; Bennington St., East Boston Dist., 8700 sq.yd. granite block on 6 in. concrete base, to McGuire & McGourty Co., Boston, $37,687.

**New York**—State Highway Dept., Albany, received bids Aug. 26, improving roads in following counties: (a) Montgomery Co., 3.7 mi. Palatine Bridge-Stone Arabia, Rd. No. 517,

(b) Rensselaer Co., 1.27 mi. Oakwood Ave., Rd. No. 1527,

(c) Saratoga Co., 9.06 mi. Schuylerville-Gansevoort, Rd. No. 1461,

(d) Suffolk Co., 5.85 mi. Coll Spring-Hunting on-Fort Salonga, Part 1, Rd. No. 1525, completing roads in following counties: (e1) Cayuga Co., 6.06 mi. Fleming-Scipio, Part 2, Rd. No. 1327-A, (e2) 5.45 mi. Venice Center-Genoa, Rd. No. 1414.

(f) Chautauqua Co., 5.65 mi. Jamestown-Ashville, Rd. No. 1330-A,

(g) Franklin Co., 10.36 mi. Malone-Chateaugay, Rd. No. 5613,

(h) Livingston Co., 8.34 mi. Conesus-Wayland, Rd. No. 1321-A,

(i1) Madison Co., 6.54 mi. Munnsville-Pratts Hollow-Pine Woods, Rd. No. 1360, (i2) 5.65 mi. Oneida Lake-South Bay and Oneida-South Bay, Part 2, Rd. No. 1361,

(j) Seneca Co., 2.3 mi. Willard-Ovid Rd., No. 1401-A,

(k) Ulster Co., 10.24 mi. Napanoch-Montela, Rd. No. 603,

(l) Washington Co., 2.06 mi. Cambridge-Ash Grove, Rd. No. 1109, also completing repair roads in following counties: (m) Cortland Co., 42 mi Cincinnatus, Rd. No. 377. Repair Contract No. 1003, from A. F. Schaffer, Schenectady, (a) $128,316; Campbell & Wall, Troy, (b) $39,041; Troy Contg. Co., Troy, (b) $39,094; MacArthur Bros., 120 Bway, New York City, (c) $331,866;

J. J. Guinan Contg. Co., 2314 Gravesend Ave., Brooklyn, (c) $333,457;

Dale Eng. Co., Mann Bldg., Utica, (c) $353,053, (i1) $124,332, (i2) $98,777;

R. W. S. Corp., New York City, (d) $199,189;

Universal Steel Export Co., Inc., 26 Cortland St., New York City, (d) $214,646;

C. D. Schlemmer, Islip, (d) $214,770;

Cayuga Co., Auburn, (e1) $103,432, (e2) $180,687;

Mosier & Summers, Inc., 1266 Seneca St., Buffalo, (f) $218,638;

J. A. Hughes, Wellman Bldg., Jamestown, (f) $248,153;

W. T. Thayer & Co., East Main St., Chateaugay, (g) $67,538;

McCarthy & Rock, Winthrop, (g) $69,076;

Atlanta Constr. Co., Atlanta, (h) $221,-118;

C. H. Van Auken, Fulton Chain, (i1) $120,754;

H. W. Roberts & Co., 610 Lansing St., Utica, (i1) $124,308;

C. B. Van Slyke, Jr., Clinton, (i2) $91,-078;

Hendrickson-McCabe Co., Syracuse, (i2) $91,360;

Greenfield Constr. Co., 89 Main St., Hornell, (i2) $94,631;

J. Conley, Ithaca, (j) $45,730;

J. W. Gurnett, Watkins, (j) $47,228;

Armstrong & Trowbridge, Napanoch, (k) $34,598;

DeGraff & Hogeboom, Inc., Kingston, (k) $34,745;

Troup & Sherwood Co., Haverstraw, (k) $34,763;

W. G. Fox, Nelson Ave., Saratoga Springs, (l) $9837;

N. E. Young, Union, (m) $12,982;

W. R. Kimmey, Hudson Falls, (m) $13,-162;

J. D. Rust, Syracuse, (m) $13,412. Noted Aug. 7.

**N. Y., Brooklyn**—Park Bd., Municipal Bldg., New York City, received bids Aug. 28, furnishing material and labor for improving (a) Park Circle, (b) East Drive, (c) sidewalks, from Uvalde Asphalt Paving Co., 1 Bway., New York City, (a) $27,603, (b) $135,147; Consolidated Asphalt Paving Co., 52 9th St., (a) $28,808, (b) $127,195; Sicilian Asphalt Paving Co., 41 Park Row, New York City, (a) $29,308, (b) $131,437; M. J. Rooney, 126 West 90th St., New York City, (c) $14,[illegible]; J. L. Brennan, (c) $1474; F. Gradwohl, 839 West 178th St., New York City, (c) $1504. Noted Aug. 21.

**★N. Y., Buffalo**—City let contract to Rock Asphalt & Constr. Co., Morgan Bldg., paving Stevens St. from East Ferry St. to point 700 ft. north, 26 ft. wide, involving 2027 sq.yd. Spec. B German rock asphalt on 6 in. concrete base, $10,954; Poultney St. from Kensington to Hutchinson Aves., 26 ft. wide, 2556 sq.yd. German rock asphalt on 6 in. concrete base and Medina sandstone curbing, $14,089; Bird Ave. from Niagara St. to Soldiers Pl., 30 ft. wide, 20,042 sq.yd. German rock asphalt Spec. B, on 6 in. concrete base, $92,800; Crescent Ave. from Parkside Ave. to Colvin St., 26 ft. wide, 2756 sq.yd. German rock asphalt, Spec. B, and Medina sandstone curbing on 6 in. concrete base, $25,440; Argus St. from Essex St. to Roesch Ave., 26 ft. wide, 2186 sq.yd. German rock asphalt on 6 in. concrete base and Medina sandstone curbing, $12,059; Cassy St. from William St. to point 198 ft. south, 26 ft. wide, 577 sq.yd. dressed Medina sandstone and cement grout filler on 6 in. concrete base, $4307; Breckenridge St. from Niagara St. to Erie Canal, 26 ft. wide, 1273 sq.yd. Medina dressed sandstone blocks on 6 in. concrete base, $9249; Floss Ave. from Genessee Ave. to Delavan Ave., 24 ft. wide, 6312 sq.yd. German rock standard asphalt and Medina sandstone curbing on 6 in. concrete base, $34,047; to Erie Contg. Co., Morgan Bldg., Harriett St. from Delevan Ave. to north end of street, 26 ft. wide, 4615 sq.yd. brick on 6 in. concrete base, $25,000; to H. P. Burgard Co., 1968 Fillmore Ave., Schuehle St. from East Ferry St. to Northland Ave., 28 ft. wide, 2400 sq.yd. asphalt and Medina sandstone curbing on 6 in. concrete base, $21,990; Cornwall St. from Delavan to Warwick Aves., 24 ft. wide, 7285 sq.yd asphalt on 6 in. concrete base and Medina sandstone curbing, $35,900. Noted July 17 and 31.

**N. Y., Buffalo**—City received bids paving (a) Kilhoffer St., 24 ft. wide, involving 2135 sq.yd. vitr. brick or asphalt on concrete base,

(b) Richlawn St., 26 ft. wide, 3772 sq.yd. vitr. brick or asphalt on concrete base,

(c) Elmer St., 26 ft. wide, 4621 sq.yd. vitr. brick or asphalt on concrete base,

(d) Tamarack St., 26 ft. wide, 1749 sq.yd. vitr. brick or asphalt on concrete base,

(e) Meriden St., 26 ft. wide, 3103 vitr. brick or asphalt on concrete base,

(f) Abby St., 28 ft. wide, 4657 sq.yd. vitr. brick, sandstone block dressed or asphalt on concrete base,

(g) Lark St., 24 ft. wide, 1677 sq.yd. vitr. brick or asphalt on concrete base,

(h) Colfax Ave., 26 ft. wide, 3615 sq.yd. vitr. brick or asphalt on concrete base,

(i) Page St., 26 ft. wide, 2486 vitr. brick or asphalt on concrete base,

(j) Fuller St., 26 ft. wide, 3280 sq.yd. vitr. brick or asphalt on concrete base,

(k) Howell St., 26 ft. wide, 1423 sq.yd. vitr. brick or asphalt on concrete base,

(l) Amber Ave., 26 ft. wide, 4165 sq.yd. vitr. brick or asphalt on concrete base,

(m) Sheffield Ave., 26 ft. wide, 6612 sq.yd. vitr. brick or asphalt on concrete base,

(n) Magnolia St., 24 ft. wide, 1490 sq.yd. vitr. brick or asphalt on concrete base.

(o) Willett St., 26 ft. wide, 6178 sq.yd. vitr. brick or asphalt on concrete base,

(p) Kensington Ave., 30 ft. wide, 592 sq.yd. asphalt on concrete base, all Medina curbing, (1) asphalt, (2) brick, (3) blocks, from

Rock Asphalt & Constr. Co., Morgan Bldg., (a1) $11,986, (b1) $20,249, (c1) $25,-364, (d1) $9873, (e1) $16,609, (f1) $28,480, (f3) $36,382, (g1) $9334, (h1) $21,240, (i1) $13,905, (j1) $17,776, (k1) $8392, (l1) $21,-782, (m1) $35,627, (n1) $8117, (o1) $33,997, (p1) $3421;

H. P. Burgard Co., 1968 Fillmore Ave., (a1) $12,155, (b1) $20,760, (c1) $23,530, (d1) $10,080, (e1) $17,310, (g1) $9555, (h1) $18,965, (i1) $13,650, (j1) $18,180, (k1) $8685, (l1) $24,180, (m1) $36,445, (n1) $8235, (o1) $34,790, (p1) $3555;

Streets and Roads (Continued)

Erie Contg. Co., Morgan Bldg., (a2) $11,400, (b2) $19,500, (d2) $9400, (e2) $16,000, (f2) $26,300, (i2) $14,000, (j2) $17,800, (k2) $8300, (m2) $34,500, (n2) $8000, (o2) $33,500;

B. F. Soire, 24 Colonial Circle, (2) $25,450, (g2) $9329, (h2) $20,550, (l2) $25,450. Noted July 17 and 31.

★**N. Y., Fredonia**—City let contract paving Eagle St., brick, to P. B. Colgan, Dunkirk. About $52,000.

**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro., received bids Aug. 27, regulating and repaving with sheet asphalt on broken stone macadam base, Hillside Ave. from Grand St. to Rocky Hill Rd., 4th Ward, from Union Paving Co., Bway. and 112th St., $151,376; Consolidated Asphalt Co., Brooklyn, $176,678; Cleveland-Trinidad Paving Co., Flushing Ave., Brooklyn, $199,847. Noted Aug. 21.

★**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro., let contracts, to Sicilian Asphalt Paving Co., 41 Park Row, New York City, regulating, grading, curbing and laying sidewalks, on Anthon Ave., $6509, 4th St., $22,628, Hunterspoint Ave., $29,742, Nurge St., $3762, Olmstead Ave., $7205, Van Cortland Ave., $9060; to Hastings Paving Co., 25 Broad St., New York City, Boulevard, $29,260; to Peace Bros., 20 Main St., Flushing, Broad St., $11,735; to W. Welsh, Astoria, Buckley St., $5280; Moor St., $8875; to Uvalde Asphalt Paving Co., 1 Bway., New York City, Freedom Ave., $45,225; to R. A. Hess, Corona, Gunther Ave., $22,539; to C. Gallagher, Woodhaven, Hancock St., $1735; St. Felix Ave., $4479; to Cleveland Trinidad Paving Co., Flushing Ave., Brooklyn, Poland St., $13,885; to Annarock Eng. & Constr. Co., Long Island City, Woodside Ave., $126,560; to Holding Realty Co., Long Island City, 16th St., $26,114. Noted Aug. 28.

**N. Y., New York**—H. Bruckner, pres. Bronx Boro., received bids Aug. 28, paving with bituminous concrete on 5 in. concrete foundation, (a) East 239th St., (b) East 107th St., (c) regulating and grading Blackrock Ave., from Uvalde Asphalt Paving Co., 1 Bway., (a) $7089, (b) $12,676; Asphalt Constr. Co., 2197 Madison Ave., (a) $7240, (b) $11,673; Mt. Vernon Grading Constr. Co., Mt. Vernon, (c) $22,657; I. Cavalluzzo, 1538 Walton Ave., (c) $23,620; Watson Co., East Tremont Ave. and Westchester Creek, (c) $24,292. Noted Aug. 21.

**N. Y., New York**—F. L. Dowling, pres. Manhattan Boro., received bids Aug. 25, regulating and repaving with granite block on concrete base, intersection of (a) Bway., (b) with sheet asphalt on concrete base, roadway of Bway. from Morris to Vesey Sts., (c) 28th St., (d) 110th St., (e) Lenox Ave., (f) Lexington Ave., (g) with wood block, Lexington Ave., from M. I. Sachs, (a) $3109; P. J. Kearns, (a) $3630; D. J. McCarthy, (a) informal; Sicilian Asphalt Paving Co., 41 Park Row, (b) $54,413, (c) $28,121, (d) $37,208, (e) $49,870, (f) $119,480; Uvalde Asphalt Paving Co., 1 Bway., (b) $56,638, (c) $27,955, (d) $35,404, (e) $50,861, (f) $121,173; Cleveland-Trinidad Paving Co., Flushing Ave., Brooklyn, (b) $58,485, (c) $27,071, (d) $37,997; J. L. Brusstar, Harlem River and 150th St., (c) $27,653, (d) $37,561, (e) $47,799, (f) $91,945; Asphalt Constr. Co., 2197 Madison Ave., (d) $36,773, (e) $48,754, (f) $89,198, (g) $141,420. Noted Aug. 21.

★**N. Y., Rochester**—Bd. Contr. & Supply let contract grading and paving approaches to Clarissa St. Bridge, to Whitmore, Rauber & Vicinus, 279 South Ave., $45,872; Peckham St., asphalt, to J. Frederichs Co., Livingston Bldg., $12,575.

**N. Y., S. I., St. George**—C. D. Van Name, pres. Richmond Boro., received bids Aug. 21, repaving (a) Richmond Terrace from Western Ave. to Elizabethport Ferry, (b) Richmond Terrace from Treadwell Ave. to Harbor Rd., (c) Castleton Ave. from Clove Rd. to Caroline St., (d) Brook St. from Richmond Turnpike to Jersey St., (e) Wadsworth Ave. from Bay St. to Tompkins Ave., (f) Bay St. from Bayview to Wadsworth Ave., (g) Lindenwood Rd. from J. E. Donovan, Port Richmond, (a) $6300, (b) $54,121, (c) $4200, (e) $3750; J. Johnson Sons, Port Richmond, (a) $7081, (b) $53,900, (c) $3800, (e) $3900, (f) $2825, (g) $1170; C. Vanderbilt, 24 Elizabeth St., West New Brighton, (a) $8190, (b) $47,493, (c) $3895, (e) $4800, (g) $1200; Leedecke & Sachs, (b) $48,310, (d) $11,680; Uvalde Asphalt Paving Co., 1 Bway., New York City, (f) $2550; Sicilian Asphalt Paving Co., 41 Park Row, New York City, (f) $32.85. Noted Aug. 14.

★**N. Y., Schenectady**—Bd. Contr. & Supply let contract grading, curbing and paving James and Robinson Sts., to B. Trimpoli, Schenectady, $12,347.

★**N. J., Bordentown**—City Comrs. let contract paving about 1 mi. Burlington, 2nd, Church, Mary and Spring Sts., concrete, to J. F. Burke Co., 309 Park Ave., Plainfield, $22,606. Noted Aug. 14.

★**N. J., Camden**—Bd. Freeholders, Camden Co. let contract improving portion King's Highway, Haddonfield Twp., to McInerney & McNeal, Inc., Easton, Pa., involving 3051 cu.yd. excav., 7715 sq.yd. bituminous macadam, 1653 sq.yd. concrete gutters, etc. About $42,949. Noted Aug. 14.

★**N. J., Hoboken**—City let contract repaving 6th and 7th Sts. from Washington St. to Bloomfield Ave., granite block, to A. Lettieri & Son Co., 261½ Wayne St., Jersey City. About $117,000.

★**N. J., Trenton**—Bd. Freeholders, Mercer Co., let contract building 1600 ft. Sect. 2-A River Rd., Hopewell Twp., to Gibbs & Morgan Co., 12 North Willow St., $29,595. Noted Aug. 14.

★**Pennsylvania**—State Highway Dept., Harrisburg, let contracts building roads in counties as follows:

Fayette Co., 4101 ft. vitr. brick, North and South Union Twps., to E. C. Cornish and W. Miller, 620-22 Fayette Title & Trust Bldg., Uniontown, $51,475;

Lehigh Co., 16,218 ft. one course rein.-con. from Emaus to Allentown to J. McGraw Co., 1010 Commercial Trust Bldg., Phila., $106,897;

Lycoming Co., 15,683 ft. bituminous surface course on concrete foundation or rein.-con., Wolf Twp. and Picture Rocks Boro., to Winston & Co., 240 Fair St., Kingston, N. Y., $155,377;

Wyoming and Lackawanna Counties, 71,063 ft. bituminous surface course on concrete foundation or rein.-con., Clarks-Summit, Glenburn Boroughs and Abingdon Twp., to Ruthven, Rees & O'Brien, 212 Carter Bldg., Scranton, $468,327;

Luzerne Co., 31,418 ft. bituminous surface course on concrete foundation or rein.-con., West Pittston and Exeter Boroughs and Twps., Richardson Hand, Wilkes-Barre, $228,548;

Bucks Co., 812 ft. vitr. brick, Falls Twp., to F. G. Meyers Co., Inc., 1218 Chestnut St., Phila., $13,914. Noted Aug. 28

★**Pa., Allegheny**—Supervs. Allegheny Twp. let contract rebuilding 17,490 ft. Carrolltown Rd., 17 ft. wide, from Bradley Jct. to Loretto Boro. line, vitr. brick on 4 in. concrete base, to Lord & Clark, Hastings, $183,230. Noted Aug. 7.

★**Pa., Chartiers**—(Pittsburgh P. O.)—Town let contract grading, paving and curbing Lakewood Ave., from Pittsburgh City line to Oak St., to J. B. Reed Co., McKees Rocks. About $13,000. Noted Aug. 21.

★**Pa., Connellsville**—Comrs. Fayette Co. let contract building 7335 ft. concrete road, 18 ft. wide, to be known as McClellandtown Rd., to J. L. Brown, Uniontown. About $65,000. Noted July 31.

**Pa., Emsworth** (Pittsburgh P. O.)—Boro. received bids grading, paving and curbing Locust St., from McDonough & O'Toole, Pittsburgh, $16,100, R. V. Baldwin, Coraopolis, $16,800, S. Baumgardner, Bellevue, $19,300. Noted Aug. 28.

★**Pa., Lebanon**—City let contracts paving Sects. 1 and 2 of streets from Cumberland to Mangan Sts., involving 5400 sq.yd. 2½ in. lug block on 5 in. base, pitch cushion and filler, to Pugh & Dolan, Pottsville, $7521 and $23,688 respectively; Sect. 3, 10,000 sq.yd. 2 in. bitulithic on 5 in. concrete base, to H. Neumeyer, Bethlehem, $38,128.

★**Md., Baltimore**—Bd. Awards let contract furnishing materials and flushing surface of Edmondson, Forest Park, Gwynn Oak, Rogers, Greenspring and Gwynne Falls Aves., to Pennsylvania Eng. & Constr. Co., Lawnsdowne, Pa., at 28 cts. per sq.yd. Noted Aug. 14.

★**W. Va., Fairmont**—City let contract paving 3000 ft. Morgantown Ave. concrete, to T. Shuttle, Fairmont. About $18,000. Noted Aug. 7.

★**W. Va., Huntington**—City let contract paving 12th Ave., 3rd and 4th Sts., to Duncan & Griffith, Huntington, $17,960.

**N. C., Hickory**—City rejected all bids received Aug. 28 for cementing sidewalks on main streets. Work will be done by day labor. Cost between $15,000 and $20,000.

★**Fla., Seabreeze**—City let contract paving portions of 7 streets, grouted brick to Alabama Paving Co., Birmingham, Ala., $168,300.

★**O., Cleveland**—City let contracts to Freshwater Paving Co., 11712 Detroit Ave., paving Loretta and Fidelity Aves. from West 101st St. to West Blvd., brick, cost $19,505 and $10,171 respectively; Amer. Paving Co., Marshall Bldg., Franklin Ave. from West 66th St. to Franklin Circle, asphalt, $40,955; Baldwin Bros., 4300 Euclid Ave., Kinsman Rd. from East 93rd to East 140th Sts., asphalt, $72,255; A. M. Pejsa, 2359 East 93rd St., Kinsman Rd. from East 140th St. to city limits, and Superior Ave. from East 47th to East 55th Sts., brick, $75,155 and $96,513 respectively, Superior Ave. from East 39th to 47th Sts., wood block, $96,964; Burnett Hathaway Co. Society for Savings Bldg., East 4th St. from Euclid to Prospect Aves., wood block, $12,614; G. B. Herring, Society for Savings Bldg., Westfield Ave. from London Rd. to Wayside Ave., brick, $10,548; Roehl Bros., West 25th St. and Clark Ave., West 44th St. from Hyde to Starsdale Aves., brick, $12,045. Noted Aug. 28.

**Ind., Indianapolis**—City received lowest 3 bids resurfacing South St. and repaving streets involved in track elevation project, from Mead Constr. Co., Lemcke Annex, $92,205, J. N. Morgan & Son, $92,600, Marion Co. Constr. Co., 1600 South West St., $92,000.

★**Michigan**—State Highway Dept., Lansing, let contract shaping and surfacing 5.707 mi. State Trunk Line Rd. No. 35-3, Delta Co. 16 ft. wide, involving 53,571 sq.yd. waterbound macadam, to Bichler Bros., Gladstone, $42,445.

★**Michigan**—State Highway Dept., Lansing, let contract grading, draining and surfacing Assessment Dist., Rd. No. 256, 6.485 mi. macadam, to Skeldon & Ryan Constr. Co., Box 172, Central Station, Toledo, O., $123,706, 1.176 mi. concrete, to Hilding & Robe, Rega, $35,911; also grading and surfacing 7.083 mi. State Trunk Line Rd. No. 25-3, involving 66,485 sq.yd gravel, to Bd. Luce Co. Rd. Comrs., Newberry, $68,000. Noted Aug. 14.

★**Michigan**—State Highway Dept., Lansing, let contract shaping, surfacing and building drainage structures on 3.497 mi. State Trunk Line Rd. 24-1, Mecosta Co., 16 ft. wide, to Bd. Co. Rd. Comrs., Mecosta Co., Big Rapids, $53,879. Work involves 32,648 sq.yd. gravel and 30,104 cu.yd. earth excav.

★**Michigan**—State Highway Dept., Lansing, let contract to J. Decker, Rogers City, grading, surfacing and building drainage structures on 5.026 mi. State Trunk Line Rd. No. 72-1, Alcona Co., 15 ft. wide, involving 44,229 sq.yd. gravel and 23,798 cu.yd. earth excav., $60,425; to Bichler Bros., Gladstone, shaping, grading and surfacing 3.258 mi. State Trunk Line Rd. No. 35-4, Delta Co., 16 ft. wide, involving 30,582 sq.yd. waterbound macadam, $24,231. Noted Aug. 14.

★**Ill., Moline**—City let contract paving 24th Ave. from 13th to 16th Sts., to D. J. Ryan Constr. Co., 41 1st Natl. Bank Bldg., Davenport, Ia., $14,447; 48th St. from 2nd to 5th Aves., to S. D. Hicks Constr. Co., 1430 29th St., $10,639. Noted May 1.

★**Wisconsin**—State Highway Comn., Grand Rapids, let contract to Garvey-Weyenberg Constr. Co., 812 College St., Appleton, building 3.97 mi. Wausau-Stevens Point Rd., Marathon Co., involving 8076 cu.yd. earth and 108 cu.yd. borrow excav. at $.90 per cu.yd., 41,979 sq.yd. concrete surfacing, $.94; 43.9 cu.yd. class "A" concrete, $22, and 1209 lin.ft. guard rail, $.60 per lin.ft. Total cost, $50,202. Noted Aug. 7.

★**Wis., Appleton**—City let contract paving Dakota Ave., Mill and Pleasant Sts., 7½ in. concrete, to Johnson & Drake, 905 Plymouth Bldg., Minneapolis. About $85,000.

★**Wis., Manitowoc**—A. H. Zander, engr., City Hall, let contract grading, curbing, guttering and paving 1 mi. 18th and Washington Sts., 18 ft. wide, involving 7980 sq.yd. concrete, to W. O. Bahr, Manitowoc, $18,750. Noted Aug. 28.

★**Wis., Reedsburg**—City let contract grading, curbing, guttering and paving 2 mi. East Main St., 18 ft. wide, involving 17,850 sq.yd. vertical fibre brick, to Sweeny Bros., Main St., $24,780. Noted Aug. 14.

Streets and Roads (Continued)

★**Minn., Brainerd**—C. W. Mahlun, aud. Crow Wing Co., let contract improving 3.7 mi. Federal Aid Project No. 75, State Rd. No. 2, 24 ft. wide, to McCree, Moos & Co., St. Paul, $2.72 per sq.yd. Noted July 31.

★**Mont., Red Lodge**—Carbon Co. let contract grading, draining and gravel surfacing Miller Dyke Rd., to Carlson Contg. Co., Red Lodge. About $27,500.

★**Arkansas**—State Highway Dept., Little Rock, let contract building 84.37 mi. state highway, bituminous concrete and macadam, to Southern Impvt. Co., 506 A. O. U. W. Bldg., Little Rock. About $2,500,000.

★**Ark., Marion**—Comrs. Crittenden Co. let contract to Newell Constr. Co., Birmingham, Ala., building 9 mi. Roads Nos. 10 and 11, Rd. Impvt. Dist. No. 8, involving 67 400 cu.yd. embankment, 11 acres clearing and grubbing, 28 cu.yd. plain concrete and 500 ft. 18-24 in. corrugated metal pipe. About $29,695.

★**Tex., Abilene**—Taylor Co. let contract gravel surfacing 7 mi. Highway No. 1, Rd. Dist. No. 2, and part of Rd. Dist. No. 1, 24 ft. wide, to Sanders Bros., Miami, $21,-013. Noted July 31.

★**Tex., San Antonio**—Bexar Co. let contract surfacing 7 mi. Culebra Rd., 16 ft. wide, in rock asphalt, to Chapin & Colglazier, Moore Bldg, 40,000 yd., $0.60 per yd. and 22,000 yd., $0.40.

★**Tex., Seymour**—Baylor Co. let contract caliche or clay surfacing and building concrete drainage structures on 4.31 mi. Highway No. 30, east and west of here, 16 ft. wide, to W. E. Stephens, Seymour, $22,401. Noted Aug. 21.

★**Okla., Sapulpa**—City let contract paving 27,000 yd. various streets, to E. C. McCormick, c/o Parker-Washington Co., 6161 Maple Ave., St. Louis, Mo. About $300,000.

★**Idaho, Cœur d'Alene**—City let contract to Weeks & Severson, Coeur d'Alene, $15,-910, paving 8th, 9th, Hastings, St. Maries, Penna., Foster, Boyd and Montana Sts., involving 10,800 ft. concrete curbing, 10,480 sq.yd. sidewalk, 4200 cu.yd. embankment, 680 lin.ft. concrete crosswalks, 360 lin.ft. concrete alley crosswalks and 250 lin.ft. concrete or galvanized drain pipes.

★**Wash., Mount Vernon**—Comrs. Skagit Co. let contract paving 2 mi. Clear Lake Rd., concrete, to Kaiser Paving Co., Everett, $55,687.

★**Wash., Seattle**—Bd. Pub. Wks. rejected bids received Aug. 15, paving 12th Ave. N. E., et al, involving 9275 sq.yd. 6 in. concrete, 5920 lin.ft. concrete curbing and 2100 cu.yd. earth excav. About $32,894. Work will be done by day labor. Noted Aug. 21.

★**Wash., Seattle**—Bd. Pub. Wks. let contract paving 36th Ave., S., asphaltic concrete, to J. L. Smith, 1475 20th St., $11,434. Noted Aug. 28.

★**Wash., Tacoma**—Comrs. Pierce Co. let contract paving 1 mi. Milton Ave., 16 ft. wide, concrete, to J. Warter, Tacoma, $22,-591; clearing and grading 2.55 mi. East Side Drive, 30 ft. wide, involving 72.206 cu.yd. earth excav., to E. M. Moal, Tacoma, $74,-935. Noted Aug. 7.

**Ore., Portland**—City received only bid Aug. 20, paving Harold Ave. from Milwaukee to East 24th Sts., asphaltic concrete, from Warren Constr. Co., Journal Bldg., $13,866.

★**Ore., St. Helens**—City Council let contract grading and laying concrete pavement in various streets, to L. O. Herrold, Salem. About $10,100.

★**California**—State Highway Comrs., 515 Forum Bldg., Sacramento, let contract paving 1.9 mi. road between Santa Clara River and Williams Ranch, Los Angeles Co., involving 21,000 cu.yd. excav., 2500 cu.yd. Class "A" Portland cement concrete, etc., to Prendergast Constr. Co., Los Angeles. About $38,000. Noted Aug. 14.

**California**—State Highway Comrs., 515 Forum Bldg., Sacramento, received only bid Aug. 18, paving 10.7 mi. road, Kern Co., involving 10,000 cu.yd. excav. and 14,600 cu.yd. Portland cement concrete, from Atkinson & Moncure Co., Sacramento, $327,-520. Noted Aug. 14.

★**Quebec**—Dept. Rds., Quebec, let contract macadamizing and graveling 7 mi. Provincial Highway, 18-22 ft. wide, St. Dorothy Twp., to O'Conners, Ltd., 232 St. James St., Montreal. About $13,000.

# Railways

**PRICES AND CONTRACTS AWARDED**

(★Indicates award of contract)

★**Massachusetts**—Worcester Consolidated Street Ry., 107 Main St., Worcester, will lay 3247 ft. new track on Belmont St., from Aitchinson St. to Lake Ave., and relocate 3247 ft. old track to follow center of Belmont St. About $22,000. Work will be done by day labor.

# Excavation and Dredging

**PROPOSED WORK**

**Minn., Buffalo**—Ditch—Wright Co. having plans prepared by F. W. Van Krevelen, engr., building 4 mi. Ditch No. 36, cost, $14,000; 5 mi. Ditch No. 39, $14,000.

**Minn., Faribault** — Excavation — See "Streets and Roads."

**Ariz., Congress**—Irrigation—Alamas Land & Irrigation Co., plans to build 100 ft. dam, 20 mi. west of Congress Jct. About $250,000. Address W. F. Sawyer, Congress.

**Wash., Prosser** — Irrigation — Horse Heaven Irrigation Dist. plans to build 200 mi. canals, tunnels and siphons to carry water from Cascades, to irrigate 315,000 acres of land in Horse Heaven Dist. Bonds for $18,000,000 voted for project. L. M. Rice, L. C. Smith Bldg., Seattle, engr

**Ore., Prineville**—Irrigation—Land owners in Ochoco Dist. voted $150,000 bonds to build dam and distribuing system in Ochoco Irrigation Dist. B. A. Sordal, secy.

**Cal., Paradise**—Irrigation—Paradise Irrigation Dist. plans to issue $140,000 bonds to lay 36 in. pipe to replace main canal.

**BIDS DESIRED**

**N. Y., Brooklyn**—Dredging—Until Sept. 10, by E. Riegelmann, boro. pres., dredging Gowanus Canal from its head to Hamilton Ave. and Newtown Creek Canal at and in canal and basin included within boundaries of Johnson and Varick Aves. and in Stagg St. basin. No bids received Aug. 20. Noted Aug. 14.

**Minn., Albert Lea**—Ditch—Until Sept. 8, by F. Tavis, aud. Freeborn Co., building Ditch No. 31, Moscow and Oakland Twps., including main ditch, Sects. Nos. 30 and 31, 4 branches and 6 laterals. About $14,000.

**Minn., Benson**—Ditch—Until Sept. 16, by aud. Swift Co., installing main tile ditch and 41 branches, involving 17,800 ft. 5 in., 13,800 ft. 6 in., 6500 ft. 7 in., 2800 ft. 8 in., 5500 ft. 10 in., 6400 ft. 12 in., 1200 ft. 18 in. and 2800 ft. 20 in. tile. About $15,397. S. B. Gardner, Benson, engr.

**Minn., Duluth**—Dredging—Until Sept. 22, by W. H. Borgen, aud. St. Louis Co., dredging 2 rivers, involving 5000 ft. dredging, 5000 ft. pile protection and 27,911 cu.yd. excav. About $11,000.

**PRICES AND CONTRACTS AWARDED**

(★Indicates award of contract)

**N. Y., New York**—Dredging—M. Huriburt, comr. docks, Pier A, Battery Pl., received bids Aug. 25, dredging 115,000 cu.yd. at north and south sides Pier 59, south side Pier 64, north and south sides pier at West 52nd St., north and south sides West 54th St. pier, south side West 58th St. pier, North River, Manhattan Boro., 29,000 cu.yd. east side Pier 36, north side Piers 50, 51, 52, East 4th St., and bulkhead foot East 14th St., East River, Manhattan Boro., Contr. 1625, from F. E. Jones, 17 Battery Pl., $67,975; New Jersey Shipbuilding & Dredging Co., 50 Broad St., $78,735; P. S. Ross, $82,450. Noted Aug. 21.

★**N. B., St. John**—Excavation—City let contract to Bedford Constr. Co., St. John, excavating and refilling sewer and water trenches in Brussels St., with rock, $3.50, earth, $0.98, City Road, rock, $7, earth, $0.96; King St., rock, $3.50, earth, $1.10; Duke St., rock, $6, earth, $0.90; Douglas Ave., rock, $7, earth $0.95.

# Industrial Works

**PROPOSED WORK**

**Mass., Boston**—Boston Wool & Merchandise Co., 575 Albany St., having plans prepared by G. L. Shepard, engr., 14 Kilby St., for 8 story rein.-con. and steel storage building, rein.-con. flooring, concrete foundation, on Summer St. About $800,000.

**Mass., Springfield**—Winchester Sq. Realty Co., Winchester Sq., soon receives bids building 1 story, 143 x 176 ft., brick, concrete and steel garage and service station, rein-con. flooring, concrete foundation, on Mason St. About $40,000. Private plans.

**R. I., Providence**—Page & Page, archts., 87 Weybosset St., soon receive bids building 2 story, 45 x 106 ft brick garage, rein.-con. flooring, concrete foundation, on Broad St., for S. Bomes, 71 Farragut Ave. About $36,000.

**Conn., Unionville**—C. W. House Sons soon receive bids for 2 story, 50 x 100 ft. brick addition to plant, concrete foundation About $28,000. Private plans.

**N. Y., Brooklyn**—Zipkes, Wolff & Kudroff, archts. and engrs., 25 West 42nd St., New York City, preparing plans for 1 story, 50 x 100 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on 36th St. and 5th Ave. About $40,000. Owner's name withheld.

**N. Y., Buffalo**—Rich Ice Cream Co., 470 Spring St., having preliminary plans prepared by McCormick Co., archts. and engrs., Century Bldg., Pittsburgh, Pa., for addition to factory. Cost to exceed $55,000.

**N. Y., Canastota**—Watson Products Co. plans to build 50 x 240 ft. addition to factory. About $25,000.

**N. Y., New York**—Butterick Publishing Co., Spring and MacDougal Sts., soon lets contract building 10 story, 116 x 273 ft. brick, steel and rein.-con. publishing house, rein.-con. flooring, concrete foundation, at 223-253 Spring St. About $1,300,000. Rallinger & Perrott, 1328 Bway., archts. and engrs.

**N. Y., New York**—S. Katz, 1411 Grand Concourse, having plans prepared by J. M. Felson, archt. and engr., 1133 Bway., for 2 story, 75 x 100 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on 47th St. and 1st Ave. About $35,000.

**N. Y., Niagara Falls**—Carborundum Co., Buffalo Ave. and 14th St., soon receives bids building 3 story, 99 x 224 ft., rein.-con. addition to plant, rein.-con. flooring, concrete foundation. About $150,000. L. J. Call, c/o owner, ch. engr.

**N. Y., Portchester**—P. R. Mallory, Inc., Fox Island Rd., having plans prepared by Lockwood-Green, archt. and engr., 101 Park Ave., New York City, for 2 story, 40 x 112 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation. About $25,-000.

**N. Y., Seneca Falls**—A. Ford, 202 Fall St., purchased site on Fall and Walnut Sts., and plans to build 1 story, 68 x 100 ft., brick and concrete machine shop, garage and service station. Cost between $40,000 and $50,000.

**N. Y., Syracuse**—Onondaga Milk Producers' Co-operative Assn., S. A. & K. Bldg., receives bids about Oct. 1 building dairy plant. About $200,000. McCormick Co., Century Bldg., Pittsburgh, Pa., archts. Noted July 3.

**N. Y., Syracuse**—Onondaga Steel Co., Inc., East Water St., increased its capital stock to $1,000,000 and plans to construct additions to its plant on James St. and Thompson Rd. Plans include 40 x 160 ft. annealing plant, an 80 ft. extension to present mill building and several smaller service buildings. S. S. Buckley, pres.

**N. Y., Tonowanda**—Rand Co., 97 Goundry St., having plans prepared by R. J. Reidpath & Son, engrs. and archts., Builders' Exch., Buffalo, for 4 story, 66 x 154 ft., brick and rein.-con. factory and warehouse, concrete foundation.

**N. J., Freehold**—Bd. Freeholders Monmouth Co. having plans prepared by C. A. Slocum, engr., Long Branch, building new heating and light plant. About $25,000.

**Md., Baltimore**—Maryland Casualty Co., Baltimore and Fayette Sts. and Guilford Ave., acquired 25 acre site bounded by 37th and 40th Sts. and Cedar and E'm Aves., and plans to build plant containing more than 220,000 sq.ft. floor space. Plans include main or administration building, clubhouse, power plant, printing plant, etc., rein.-con., steel and brick construction, composition and rein.-con. flooring and concrete foundation. Project also includes improvement of grounds consisting of tennis courts, baseball field with stadium, flower beds, shrubbery, driveways, footpaths and lawns.

Industrial Works (Continued)

A portion of the land will be laid out in building lots which will be sold to officers and employees for erection of homes. Initial cost, $1,500,000. Total estimated cost, $3,000,000.

**Md., Baltimore**—Rice Motors Co., Madison and North Aves., soon receives bids building 2 story, 140 x 250 ft., rein.-con. and brick garage, rein.-con. flooring and concrete foundation, on Whitelock and McCulloch Sts. About $100,000. Smith & May, 1133 Calvert Bldg., archts.

**Md., Baltimore**—Thermopak Co., Omaha, Neb., seeking site here and plans to build plant. About $150,000.

**Md., Cascade**—Cascade Industries Co. plans to erect 2 factory buildings, one 40 x 100 ft. and one 25 x 30 ft., brick, rock and brick foundation. About $25,000. B. Janson, mgr. Private plans.

**W. Va., Huntington**—C. C. Hayward and others Ironton, O., plan to build brick plant on 16th St. Rd., here, 100,000 brick daily capacity. About $200,000.

**W. Va. Wellsburg**—Wellsburg Light & Power Co. plans to rebuild plant destroyed by fire. About $100,000.

**N. C., Charlotte**—Coca-Cola Bottling Co., 50 West 5th St., plans to build 2 story brick plant on 60 x 180 ft. site. About $100,000.

**N. C., Wilson**—Barnes-Harrell Co. plans to build 3 story bottling plant. About $100,000.

**Ky., Maysville**—Caproni Bros. having plans prepared by C. E. and E. A. Weber, archts., Miller Bldg., Cincinnati, O., building 2 story, 74 x 156 ft. rein.-con., brick and steel garage.

**O., Ansonia**—See "Waterworks."

**O., Cleveland**—R. J. Coach, Leader-News Bldg., plans to build 2 story, 85 x 105 ft., rein.-con., steel and brick garage, on Wade Park and Crawford Rds. About $75,000. Architect not selected.

**O., Columbus**—Allen Motor Car Co. plans to build 1 story, 140 x 500 ft., steel and brick factory, on Dublin Ave. About $85,000. F. L. Packard, Hayden Bldg., archt.

**O., Columbus**—Oldsmobile Co., 177 East State St., having plans prepared by W. S. Ferguson, engrs., 1900 Euclid Ave., Cleveland, for 2 story, 63 x 187 ft., steel and concrete service station and salesroom on Broad St. About $115,000.

**O., Dayton**—Duck & Oakes, Kiser St., plans to build 2 story, 55 x 120 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Kiser and Wampum Sts. About $25,000.

**O., Springfield**—Ridgely Trimmer Co., Kenton St., soon lets contract building 2 story, 60 x 152 ft., concrete and steel factory. About $30,000. R. C. Gotwald, 54 Gotwald Bldg., archt.

**Ind., Anderson**—J. C. Kresch, 1109 Meridian St., having plans prepared by McCormick Co., archts., Century Bldg., Pittsburgh, Pa., for 2 story, 72 x 72 ft. rein.-con. factory, rein.-con. flooring, brick and concrete foundation. About $40,000.

**Ill., Chicago**—City having plans prepared by C. W. Kallal, archt., 1017 City Hall, for stone, concrete and steel engine room and transformer station, concrete foundation, on Chicago and Michigan Aves. About $300,000.

**Ill., Chicago**—L. G. Hallberg & Co., archts., 116 South Michigan Ave., prepared plans and soon receives bids for 2 story, 75 x 125 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Diversey Parkway and Western Ave., for Republic Flow Meters Co., 565 West Washington Blvd. About $130,000.

**Ill., Moline**—Crandall Transfer & Warehouse Co., 410 16th St., plans to build 6 story, 74 x 120 ft., rein.-con. warehouse, on 4th Ave. and 12th St. About $100,000. Whitsit & Schulzke, 610 People's Bank Bldg., archts.

**Wis., Lomira**—Lomira Furniture Co. plans to build 2 story, 85 x 150 ft., brick, rein.-con. and steel factory, rein.-con. flooring, brick foundation, on Main St. About $40,000. Architect not selected.

**Wis., Manitowoc**—Church—Presbyterian Church plans to build 2 story, brick, rein.-con. and tile, brick foundation, on 24th St. About $60,000 Architect not selected.

**Wis., Milwaukee**—Downing Paper Box Co., 3rd St. and Vienna Ave., plans to build 120 x 300 ft. addition to factory. About $40,000.

**Wis., Packwaukee**—See "Buildings."

**Wis., Rice Lake**—Inderrieden Canning Co. plans to build 2 or 3 story, 36 x 160 ft. brick, rein.-con. and steel factory, brick foundation, on Main St. About $45,000. Architect not selected.

**Wis., Sheboygan**—Globe Co., 824 Pennsylvania Ave., plans to build 1 story, 90 x 150 ft. brick, rein.-con. and steel foundry, rein.-con. flooring, brick foundation, on Pennsylvania Ave. About $25,000. Architect and engineer not selected.

**Wis., Sparta**—Interstate Milk Products Co., Madison, having plans prepared by L. Kronenberg, archt., Carroll Blk., Madison, building 3 story, 50 x 75 ft., brick, condensory, hollow tile and steel, hard. About $75,000.

**Wis., Stanley**—Big Four Canning Co. plans to build 2 story, 72 x 180 ft., brick, rein.-con. and steel, brick foundation, on Main St. About $40,000. J. Lange, pres. Architect not selected.

**Minn., West Duluth** — (Duluth P. O.) Duluth Showcase Co., West Superior St., Duluth, having plans prepared by A. Purdy Torney Bldg., Duluth, for factory at 2300 West Superior St. About $150,000.

## BRIDGE—JACKSONVILLE, FLA.

Bids were received by Commissioners of Duval Co., July 29, for constructing bridge over St. John's River, Contract No. 1, manufacture and delivery of superstructure metal work and machinery, from (A) Mt. Vernon Bridge Co., (B) Bethlehem Steel Bridge Corp., Bethlehem, Pa., (C) American Bridge Co., 30 Church St., New York City; Contract No. 2, main river substructure, approaches and embankments, (A) Missouri Valley Bridge & Iron Co., Leavenworth, Kan.; Contract No. 3, erection of metal work and concrete floors, (A) Phoenix Bridge Co., 49 William St., New York City, (B) McClintic-Marshall Constr. Co., 50 Church St., New York City, (C) Bethlehem Steel Bridge Corp. The contract for the manufacture and erection of the superstructure metal work was awarded to the Bethlhem Steel Bridge Corp. and for the substructure and approach to the Missouri Valley Bridge & Iron Co. The unit bids were as follows:

### CONTRACT No. 1

| | A | B | C |
|---|---|---|---|
| 2,090,000 lb. deck span metal | $0.0525 | $0.049 | $0.051 |
| 1,780,000 lb. tower and through span metal | .0540 | .057 | .057 |
| 1,360,000 lb. deck girder metal | .0520 | .048 | .0475 |
| 280,000 lb. south approach metal | 5.00 | 5.00 | 4.97 |
| 2,300 lb. sidewalk gates | 25.00 | 25.00 | 17.25 |
| 9,400 lb. cast iron cwts | 5.70 | 5.00 | 6.85 |
| 193,000 lb. machinery | 18.10 | 20.00 | 23.60 |
| Motor, etc. (lump sum) | 1,950.00 | 2,700.00 | 3,300.00 |
| Switchboard, etc. (lump sum) | 350.00 | 1,000.00 | 1,125.00 |
| Gas engine, etc. (lump sum) | 850.00 | 1,000.00 | 385.00 |
| 420,000 lb. street car rails | 3.70 | 4.20 | 6.00 |
| Special track work (lump sum) | 3,650.00 | 4,000.00 | 3,725.00 |
| Extended totals | $348,949 | $349,135 | $366,690 |
| Extended totals main bridge and all rails, omitting item No. 4 | $334,949 | $335,135 | $35,974 |
| Extended totals south beam approach (item No. 4) | $14,000 | $14,000 | $13,916 |

### CONTRACT No. 2

| Piers: | A |
|---|---|
| 7,000 cu.yd. pier bases | $31.00 |
| 2,500 cu.yd. pier shafts | 20.50 |
| Total | $268,250 |
| Concrete north approach, portion south of bent 2: | |
| 4,000 lin.ft. timber piles | $0.50 |
| 550 cu.yd. pedestals | 23.00 |
| 1,680 cu.yd. general concrete | 31.25 |
| 880 lin.ft. concrete hand rail | 3.00 |
| 225,000 lb. reinforcing metal | .045 |
| 25,000 lb. miscellaneous metal | 14.00 |
| 880 lin.ft. gas pipe rail | 1.00 |
| 440 track ties | 1.40 |
| 50,000 lb. laying track | 1.19 |
| 1,210 sq.yd. bitulithic | 2.55 |
| 1,210 sq.yd. pavement No. 2 | 2.30 |
| Total with bitulithic (omitting item 14) | $88,547 |
| Total with pavement No. 2 (omitting item 13) | $88,244 |
| Concrete north approach, portion north of bent 2: | |
| 600 lin.ft. timber piles | $0.50 |
| 100 cu.yd. pedestals | 23.00 |
| 360 cu.yd. general concrete | 31.25 |
| 120 lin.ft. concrete handrail | 3.00 |
| 36,000 lb. reinforcing metal | .045 |
| 6,000 lb. miscellaneous metal | 14.00 |
| 80 lin.ft. gas pipe rail | 1.00 |
| 110 track ties | 1.40 |
| Laying special track (lump sum) | 500.00 |
| 310 sq.yd. bitulithic | 2.55 |
| 310 sq.yd. pavement No. 2 | 2.30 |
| Removal old viaduct (lump sum) | 500.00 |
| 240 sq.yd. pavement on old viaduct | 5.50 |
| Total with bitulithic (omitting item 14) | $20,015 |
| Total with pavement No. 2 (omitting item 13) | $19,937 |
| Timber north approach, south of bent No. 2: | |
| 11,000 lin.ft. piles below caps | $0.46 |
| 210,000 ft.b.m. general timber | 100.00 |
| 50,000 lb. laying car tracks | 1.10 |
| 6,600 sq.ft. sidewalk surfacing | .20 |
| 440 lin.ft. concrete rail headings | 2.05 |
| 1,210 sq.yd. bitulithic pavement | 3.45 |
| 1,210 sq.yd. pavement No. 2 | 3.20 |
| Total with bitulithic (omitting item 23) | $33,007 |
| Total with pavement No. 2 (omitting item 22) | 32,704 |
| South approach steel beams on concrete piles: | |
| 3,300 lin.ft. concrete piles | $2.80 |
| 230 cu.yd. concrete copings | 24.00 |
| Total | $14,76 |

| | |
|---|---|
| South approach timber construction: | |
| 5,200 lin. ft. piles below cars | $0.46 |
| 125,000 ft. b. m. general timber | 100.00 |
| 34,000 lb. laying car tracks | 1.25 |
| 4,400 sq. ft. sidewalk surfacing | .20 |
| 290 lin. ft. concrete rail headings | 2.05 |
| 800 sq. yd. bitulithic pavement | 3.60 |
| 800 sq. yd. pavement No. 2 | 3.35 |
| Total with bitulithic (omitting item 32) | $19,672 |
| Total with pavement No. 2 (omitting item 31) | $19,472 |
| Embankment of south approach: | |
| 6,000 cu. yd. embankment | $1.10 |
| 830 track ties | 1.35 |
| 11,000 sq. ft. sidewalk slabs | .25 |
| 60 cu. yd. curbs | 20.00 |
| 950 cu. yd. paving base | 12.50 |
| 830 lin. ft. concrete rail headings | 2.05 |
| 2,300 sq. yd. bitulithic pavement | 2.55 |
| 2,200 sq. yd. pavement No. 2 | 2.30 |
| 15,000 ft. b. m. handrails | 82.00 |
| 95,700 lb. laying car tracks | 1.25 |
| Total with bitulithic (omitting item 40) | $33,505 |
| Total with pavement No. 2 (omitting item 39) | $32,930 |
| Extended grand totals using bitulithic pavement (permanent approaches) | $425,076 |
| Extended grand totals, using bitulithic pavement (timber approaches) | 374,447 |

**CONTRACT No. 3**

| | A | B | C |
|---|---|---|---|
| Main bridge: | | | |
| 2,090,000 lb. deck span metal | $1.80 | $1.91 | $1.65 |
| 1,790,000 lb. tower and through span metal | 1.60 | 2.09 | 2.60 |
| 1,360,000 lb. deck girder metal | .80 | 1.01 | 1.20 |
| 195,000 lb. machinery | 2.50 | 2.72 | 4.00 |
| Motor, etc. (lump sum) | 400.00 | 315.00 | 500.00 |
| Switchboard, etc. (lump sum) | 12,000.00 | 7,950.00 | 14,800.00 |
| Machinery house (lump sum) | 2,800.00 | 4,015.00 | 3,300.00 |
| 365 cu. yd. counterweights | 30.00 | 34.25 | 32.00 |
| 7,200 sq. yd. slabs and bithulithic | 6.00 | 6.82 | 6.00 |
| 7,200 sq. yd. slabs and pavement No. 2 | 5.70 | 6.48 | 5.75 |
| 3,100 sq. yd. sidewalk slabs | 4.00 | 4.18 | 3.80 |
| 242,000 lb. rails and accessories | 1.00 | 1.02 | 2.00 |
| Lighting system (lump sum) | 6,600.00 | 7,010.00 | 3,800.00 |
| Total with bithulithic (omitting item 10) | $173,785 | $192,692 | $199,045 |
| Total with pavement No. 2 (omitting item 10) | $171,625 | $190,244 | $197,245 |
| South steel beam approach: | | | |
| 280,000 lb. south approach metal | $1.00 | $1.16 | $1.35 |
| 1,000 sq. yd. slabs and bitulithic | 6.00 | 6.82 | 6.00 |
| 1,000 sq. yd. slabs and pavement No. 2 | 5.70 | 6.48 | 5.75 |
| 440 sq. yd. sidewalk slabs | 4.00 | 4.18 | 3.80 |
| 34,000 lb. rails and accessories | 1.00 | 1.02 | 2.00 |
| Total with bithulithic (omitting item 11) | $10,960 | $12,212 | $12,094 |
| Total with pavement No. 2 (omitting item 10) | $10,560 | $11,872 | $11,844 |

Industrial Works (Continued)

**Neb., Omaha**—North Side Garage, 20th St. and Ames Ave., having plans prepared by J. P. Guth, archt., 516 Paxton Blk., for 1 story, 124 x 126 ft. concrete garage at 208 Ames Ave. About $25,000.

**Mo., St. Louis**—Garrett & Co., 1476 Bway., New York City, soon receives bids building 3 story addition to factory, on Natural Bridge Rd. and Union Blvd., here. About $500,000.

**Mo., St. Louis**—H. Pauk & Sons Mfg. Co., 1321 North 15th St., having plans prepared for 84 x 190 ft. factory and office, on 15th and O'Fallon Sts. About $100,000.

**Colo., Denver**—H. H. Heiser Co., 7th Ave. and Bway., soon receives bids building 2 story, 25 x 125 ft. rein.-con., steel and brick garage, rein.-con. flooring, concrete foundation. About $60,000.

**Colo., Denver**—MacFarland Auto Co., 25 East Colfax Ave., having plans prepared by Montjoy, French & Frewen, archts., Chamber Commerce Bldg., for 2 story, 125 x 125 ft. warehouse and garage, on 17th Ave. and Lincoln St. About $150,000.

**N. M., Albuquerque**—Rio Grande Light & Power Co., Sturges Hotel Bldg., having plans prepared by A. G. Hillberg, engr., Sturges Hotel Bldg., for hydro-electric power plant, 140 mi. transmission lines, auxiliary steam plant and large dam in White Rock Canyon, 40 mi. north of Albuquerque, over Rio Grande River. About $4,300,000. C. G. Wilfong, pres.

**Ore., Albany**—Pfeiffer Estate plans to build 2 story, 90 x 102 ft. brick garage, on Old Albany Livery Barn site. About $50,000. C. H. Murphy, mgr. Architect not selected. Day Motor Co., lessee.

**Ore., Portland**—Honeyman Hardware Co., 9th and Hoyt Sts., having plans prepared by D. L. Williams, archt., Chamber of Commerce Bldg., for 1 story, 100 x 100 ft. and 2 story, 100 x 100 ft. additions to Hardware houses, brick. About $50,000 each.

**Ore., Portland**—J. Simon, Sandy Blvd., soon lets contract building 2 story, 100 x 140 ft. rein.-con. factory, with 60 x 75 ft. wing, rein.-con. flooring, concrete foundation. About $50,000. E. B. MacNaughton, Concord Bldg., archt.

**Ore., St. Johns**—West Cooperage Co. having plans prepared by DeYoung & Roald, archts., 609 Spaulding Bldg., Portland, for 1 story additions to plant, to include 50 ft. addition to 10 kilns, concrete and tile. About $90,000.

**Cal., Los Angeles**—Brownstein-Louis Co., 716 South Los Angeles St., plans to build 6 story, 200 x 220 ft., rein.-con. factory, on 8th and Figueroa Sts. Architect not selected.

**Ont., Toronto**—Canadian Express Co., 55 Yonge St., having plans prepared by J. M. Lyle, archt., Avondale Rd., for 2 story, 60 x 350 ft., brick and steel warehouse, rein.-con. flooring, on Front St. About $300,000.

**Ont., Toronto**—Farmers' Dairy Co., Walmer Rd., having plans prepared by James, Loudon & Hertzberg, engrs., 36 Toronto St., for 3 story, 55 x 105 ft. dairy, rein.-con., rein.-con. flooring, concrete foundation, on Christie St. About $60,000.

**Ont., Toronto**—L. Solman, Hanlons Pt., having plans prepared by Denison & Stephenson, archts., Confederation Life Bldg., for 1 story, 80 x 150 ft., steel and timber storage warehouse, rein.-con. flooring, concrete foundation. About $60,000.

**BIDS DESIRED**

**Pa., Mont Alto**—Until Sept. 17, by E. Martin, comr. health, Harrisburg, building additions to heating plant, constructing new heating plant, laundry, and installing heating and plumbing systems for latter.

**O., Cleveland**—Holam Mfg. Co., 4011 Clark Ave., receiving bids building 2 story, 80 x 116 ft., rein.-con., steel and brick factory at 3809 Clark Ave. About $40,000. Private plans.

**Ill., Chicago**—F. M. Barton Co., archts., 1510 Kimball Bldg., receiving bids building 4 story, 60 x 100 ft. rein.-con. and brick warehouse, rein.-con. flooring, concrete foundation, on Kostner Ave. and Taylor St., for Adams & Elting, 716 West Washington St. About $100,000.

**Ill., Chicago**—G. C. Nimmons & Co., archts., 122 South Michigan Ave., receiving bids for 5 story, 125 x 127 ft., rein.-con. and steel addition to factory, rein.-con. flooring, concrete foundation, for Sears, Roebuck & Co., Howard and Homan Aves. About $225,000. Noted July 17.

**Wis., Chilton**—Until Sept. 11, by Aluminum Specialty Co., 17th and Wollmer Sts., building 2 story, 60 x 200 ft. brick, rein.-con. and steel factory, rein.-con. flooring, brick foundation, on Main St. About $60,000. Private plans.

**Wis., Ft. Atkinson**—Until Sept. 9, by Creamery Mfg. Co. building 2 story 75 x 250 ft. brick, rein.-con. and steel factory, brick foundation on Main St. About $200,000. Private plans.

**Colo., Denver**—Until Sept. 8, by Huntington Architect Co., archts., McPhee Bldg., for 4 story, 75 x 150 ft., concrete steel and brick factory, concrete foundation, on 13th St. and Bway., for Thomas Smith Motor Co., 1135 Bway. About $100,000.

**Que., Montreal**—Until Sept. 18, by Ross & MacDonald, archts., 1 Belmont Pl., building 3 story, 35 x 90 ft., concrete, steel and brick factory, concrete foundation, for Smardon Shoe Co., 533 Visitation St. About $65,000.

**Ont., Niagara Falls**—Until Sept. 9, by C. M. Borter, archt., 102 Main St., building 2 story, 60 x 120 ft., steel and brick bottling plant, rein.-con. flooring, concrete foundation, on Ferry St., for Spring Water Bottling Co. About $55,000.

**PRICES AND CONTRACTS AWARDED**

(★Indicates award of contract)

★**Mass., Boston**—Boston Storage Warehouse Co., Westland Ave., let contract building 8 story, 60 x 170 ft., rein.-con. and brick storage warehouse, concrete foundation, on Huntington St., to Evatt Constr. Co., 161 Devonshire St.

★**Mass., Boston**—Noyes Buick Co., 17 Lawton St., let contract building 5 story, 200 x 375 ft. rein.-con. storehouse, rein.-con. flooring, concrete foundation, on Commonwealth Ave., to F. T. Ley Co., 185 Devonshire St.; cost plus percentage basis. Noted June 26.

★**Mass., Boston**—M. Rudnick Co. will build 1 and 3 story, 175 x 175 ft. rein.-con. garage, rein.-con. flooring, concrete foundation, on Commonwealth Ave. About $200,000. Work will be done by day labor.

★**Mass., Boston**—Snider & Rudnick, 25 Gibbs St., Brookline, will build 2 story, 60 x 275 ft rein.-con. garage, rein.-con. flooring, concrete foundation, on St. Marys Ave. About $175,000. Work will be done by day labor.

★**Mass., Chicopee** — Torrington Co., Springfield St., let contract building 4 story, 50 x 100 ft., brick and mill construction addition to factory, concrete foundation, to E. F. Carlson Co., 310 Main St., Springfield. About $50,000. Noted Aug. 28.

★**Mass., Holyoke**—Germania Mills, Race St., let contract building 4 story, 120 x 173 ft. brick and mill construction spinning mill, brick and concrete foundation, on Berkshire and Race Sts., to Casper Ranger Constr. Co., 20 Broad St. About $150,000.

★**R. I., Providence**—Z. Zawatsky, 142 Doyle Ave., let contract building 1 story, 50 x 100 ft. brick and concrete addition to service station and garage, rein.-con. flooring, concrete foundation, on Point and Eddy Sts., to E. Turgeon, 86 Weybosset St. About $25,000. Noted June 5.

★**Conn., East Berlin**—Connecticut Metal & Chemical Co., Grove Hill St., New Britain, let contract building 1 story, brick and steel factory addition, concrete foundation, to J. H. Grozier Co., 756 Main St., Hartford. About $25,000.

★**Conn., New Haven**—H. Puddicombe & Co., 87 Orange St., let contract building 1 story, 44 x 88 ft., brick, steel and concrete warehouse, rein.-con. flooring, concrete foundation, on Henry and County Sts., to Larkin-Carey Co., 166 Brewery St. About $28,000. Noted Aug. 21.

Industrial Works (Continued)

★**N. Y., Brooklyn**—H. Hurrell, 844 St. Johns Pl., will build 1 story, 50 x 170 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Stanhope St. and Myrtle Ave. About $30,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Kronenberg Auto Renting Co., 26 Bristol St., will build 1 story, 60 x 100 ft., brick and steel garage, rein.-con. flooring, concrete foundation, at 20-24 Bristol St. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Waterbury Co., 63 Park Row, New York City, let contract building 1 story, 25 x 140 ft., brick addition to factory, rein.-con. flooring, brick foundation, on Taaffe Pl., near Park Ave., to Jacob & Youngs, 116 West 32nd St., New York City.

★**N. Y., Brooklyn**—J. W. Welz, 1582 Myrtle Ave., will build 1 story, 100 x 250 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Troy Ave. and Carroll St. About $75,000. Work will be done by day labor.

★**N. Y., Long Island City**—S. Karpen & Bros., 68 West 34th St., New York City, let contract building 6 story, 135 x 489 ft. rein.-con. factory, rein.-con. flooring, concrete foundation, on Jackson Ave between Hulst and Harold Aves., here, to Hegeman-Harris Co., 33 West 42nd St., New York City. About $750,000. Noted Mar. 13.

★**N. Y., Long Island City**—Van Brunt Iron Wks., 14th Ave., will build 300 x 310 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Borden Ave. Marsh and Fox Sts. Work will be done by day labor. Noted Aug. 21.

★**N. Y., Minetto**—Columbia Mills Co. let contract constructing two 4 story, 50 x 100 ft. factories, to J. J. Turner Contg. Co., 65 East Main St., Amsterdam.

★**N. Y., New York**—H. and R. Constr. Co., 1473 Wilkins Ave., will alter 1 story, 75 x 100 ft., brick and steel laundry, rein.-con. flooring. About $25,000. Work will be done by day labor.

★**N. Y., New York**—Magioni & Co., c/o Zipkes, Wolff & Kudroff, archts., 25 West 42nd St., will build 2 story, 25 x 100 ft., brick and steel warehouse, rein.-con. flooring, concrete foundation, on 37th St., between 8th and 9th Aves. About $40,000. Work will be done by day labor under supervision of architects.

★**N. Y., New York**—J. M. B. Realty Co., 30 East 42nd St., will build 1 story, 100 x 200 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on 158th St. and New York Central R.R. tracks. About $75,000. Work will be done by day labor. Noted Aug. 7.

★**Pa., Erie**—Continental Rubber Co., 19th and Liberty Sts., let contract building 2 story, 78 x 130 ft. power plant, brick and steel, to S. M. Stadler, Erie. About $75,000. Noted July 31.

★**Pa., Phila.**—Colonial Ice Cream Co., 1114 Ritner St., let contract building 3 story, 100 x 144 ft. rein.-con. factory, at 853 North 4th St., to F. A. Havens & Co., 845 North 19th St.

★**Pa., Pittsburgh**—C. D. Cooley, archt., Jones Law Bldg., let contracts building 2, 3 and 6 story, 112 x 123 ft. steel and brick addition to bakery, rein.-con. flooring, concrete foundation, for Liberty Baking Co., 6018 Houston St., to foundation, H. L. Kreusler, 3301 Penn Ave., $35,000; structural steel, W. M. Kratzer Co., 3212 Smallwood St., $60,000.

★**Md., Baltimore**—Baltimore Tube Co., Wicomico and Ostend Sts., let contract building 2 story, 77 x 146 ft., steel and brick factory, concrete foundation, to West Constr. Co., 907 Amer. Bldg. About $55,000.

★**Md., Baltimore**—Bentalou Garage Co., Bentalou St. and Lafayette Ave., let contract building 1 story, 40 x 680 ft., brick garage, cement flooring, brick and concrete foundation, to A. Tufts, 1401 Lexington St. About $50,000.

★**W. Va., Cedar Grove**—Travis Glass Co. let contract building 110 x 200 ft. warehouse, to Austin Co., 16112 Euclid Ave., Cleveland, O.

★**W. Va., Huntington**—Huntington Tobacco Warehouse Co., 26th St. and Charles Ave., let contract building 1 story, 140 x 424 ft. warehouse, concrete flooring and foundation, on 26th St. and 1st Ave., to F. P. Hines, Huntington. About $35,000; commission basis.

★**W. Va., Huntington**—Penn Table Co., 2nd Ave. and 21st St., let contract building three 3 story, 60 x 165 ft., 50 x 57 ft. and 22 x 150 ft. furniture factories, to F. P. Hines & Sons, Huntington. About $40,000; commission basis.

★**N. C., Charlotte**—Interstate Milling Co., West 10th St., let contract building 95 x 160 ft. warehouse, to J. A. Jones, Realty Bldg. About $30,000.

★**O., Akron**—Akron Baking Co., 178 South Forge St., let contract building 2 store, 69 x 132 ft., rein.-con. and steel addition, to Carmichael Constr. Co., 524 Hamilton Bldg. About $75,000. Noted Aug. 21.

★**O., Cleveland**—W. M. Pattison Co., 777 Rockwell Ave., let contract building 4 story, 161 x 192 ft., rein.-con., steel and brick addition to factory, at 9205 Detroit Ave., to Hunkin Conkey Co., Century Bldg. About $100,000. Noted Aug. 21.

★**O., Springfield**—Robbins & Myers Co., Lagonda Ave., let contract erecting 4 story factory and office buildings, one 60 x 140 ft. and one 50 x 125 ft., rein.-con. and brick, rein-con. flooring, concrete foundation, to Davis-Hunt Constr. Co., 1st and Webb Sts., Dayton. About $500,000.

★**O., Washington C. H.**—Sunlight Creamery Co., c/o Cudahy Packing Co., 111 West Monroe St., Chicago, let contract building 1½ story, 60 x 235 ft., creamery, rein.-con. and brick, rein.-con. flooring, concrete foundation, here, to W. Adams Co., 209 La Salle St., Chicago. About $100,000.

★**Ind., East Chicago**—G. B. Limbert & Co., 570 Fulton St., let contract to F. G. Wall, 1105 Beacon St., East Chicago, building 2 story, 50 x 80 ft.; also 1 and 2 story, 90 x 170 ft., rein.-con., steel and brick, machine shops, rein.-con. flooring, concrete foundation. About $80,000.

★**Ill., Chicago**—Broccolo Bros., 1010 Taylor St., let masonry contract for 4 story, 80 x 155 ft. rein.-con and brick factory, rein.-con. flooring, concrete foundation, at 1238 Harrison St. to J. L. Stella, 911 Bishop St. About $125,000.

★**Ill., Chicago**—H. G. Fischer & Co., 2341 Wabansia Ave., let contract building 3 story, 60 x 110 ft. brick and mill construction factory, concrete foundation, at 2339 Wabansia Ave., to R. L. Brockob, 5448 Flournoy St. About $70,000.

★**Ill., East St. Louis**—Zoder Mills Co. let contract building 4 story, 70 x 100 ft. brick, steel and concrete mill, rein.-con. flooring, concrete foundation, on river front, to Brown Constr. Co., East St. Louis, $150,000.

★**Ill., Kincaid**—O. Heineman Co., 1935 Fairfield Ave., Chicago, let contract building 1 story, 80 x 100 ft. mill construction mill, brick foundation, to Midland Eng. & Constr. Co., 332 South Michigan Ave., Chicago. About $60,000.

★**Wis., Barton**—Stevens Mfg. Co. let contract building 2 story, 80 x 128 ft., brick, rein.-con. and steel factory, rein.-con. flooring, brick foundation, on Main St., to Hron & Wilkinson, West Bend. About $30,000.

★**Wis., Green Bay**—Gazett Candy Co., 622 Main St., let contract building 2 story, 30 x 90 ft., brick addition to factory, to E. H. Regal, 134 South Adams St. About $50,000.

★**Wis., Milwaukee**—Pabst Brewing Co., 9th and Chestnut Sts., will remodel and convert 5 story, 65 x 230 ft. brick brewery into knitting mill. About $100,000. Work will be done by day labor.

★**Wis., Sheboygan**—Wald Mfg. Co., 18th St. and Martin Ave., let contract building 3 story, 90 x 140 ft., brick, rein.-con. and steel factory, rein.-con. flooring, brick foundation, on Martin Ave., to W. Freitag, Blocki Court. About $25,000. Noted July 24.

★**Wis., Two Rivers**—Hamilton Mfg. Co. let contract building 2 story, 40 x 150 ft. brick, rein.-con. and steel power house, on Main St., to W. W. Oeflein, 86 Michigan St., Milwaukee. About $50,000.

★**Neb., Lincoln**—Lincoln Hide & Fur Co. let contract building 3 story, 86 x 112 ft. brick and steel warehouse, rein.-con. flooring, to C. Olson, 1405 South 16th St. About $115,000.

★**Neb., Omaha**—E. L. Means, Orleans, let contract building 5 story, 120 x 132 ft. warehouse, on 11th and Dodge Sts., here, to J. L. Carnegie & Son, 189 West Madison St., Chicago, Ill. About $175,000. Noted Mar. 27.

★**Mo., St. Louis**—H. J. Wise, engr., Post Dispatch Bldg., let contract to W. Voepel Co., 1113 Sidney St., building 2 story, 90 x 252 ft. addition to laundry and 1 story, boiler house, brick, concrete and steel, rein.-con. flooring, concrete foundation, for Superior Laundry Co., 1745 South 18th St. About $80,000. Noted Aug. 21.

★**Tex., Vernon**—Kell Milling Co. let contract building boiler house and power plant to Burrell Eng. Co., Security Bldg., Kansas City, Mo. About $30,000.

★**Wash., Seattle**—S. A. Hull, 71 West Madison St., let contract building 4 story, 120 x 120 ft. warehouse, mill construction, on Western Ave. and University St., to A. W. Quist Constr. Co., Hoge Bldg. About $105,000. Noted July 24.

★**N. B., Fredericton**—See "Miscellaneous."

★**Que., Montreal**—C. Dufort, archt., 195 St. Catherine St., E., let contract to D. G. Loomis & Co., St. Patrick St., for 45 x 100 ft., concrete and brick garage, rein.-con. flooring, concrete foundation, for Bramson Auto Serv., Phillips Sq. About $51,500. Noted March 20.

★**Que., Montreal**—Montreal Abattoirs, Ltd., 139 Mill St., let contract building 4 story, 48 x 62 ft., steel and brick abattoir, rein.-con. flooring, concrete foundation, to Anglin Norcross Ltd., 65 Victoria St. About $50,000.

★**Que., St. Johns**—Belding, Paul, Corticelli Co., Shearer St., Montreal, let contract building 4 story, 50 x 50 ft. thread factory, rein.-con., concrete foundation, on River St., to Anglin, Norcross, Ltd., 65 Victoria St., Montreal. About $52,000.

## Buildings

### PROPOSED WORK

**Mass., Boston**—High School—Bd. Educ. receives bids about Jan. 1, building 39 room school on Fenway St., brick, concrete and steel, concrete foundation. About $650,000. Noted Aug. 21.

**Mass., Chicopee**—Office—Springfield Provision Co., Plainfield St., soon receives bids building 3 story steel and concrete, rein.-con. flooring, concrete foundation. About $50,000. Private plans.

**R. I., Bristol**—Theatre and Business—S. P. Colt, c/o Natl. India Rubber Co., having plans prepared by Clarke & Howe, archts., 1208 Turk Heads Bldg., Providence, for 4 story, 60 x 120 ft. brick and marble. About $85,000.

**N. Y., Brooklyn**—Synagogue—Congregation Tiefereth Israel, c/o Shampan & Shampan, archts., 50 Court St., having plans prepared for 2 story limestone and terra cotta, brick foundation, on 14th St. and 7th Ave. About $250,000. J. Bull, pres.

**N. Y., Jamestown** — Store — Peterson Bros., 100 East 2nd St., having plans prepared and soon receives bids building 5 story, 52 x 90 ft. concrete and steel, rein.-con. flooring, concrete foundation. About $60,000. C. C. Peterson, Jamestown, archt.

**N. Y., New York**—Office—Buchman & Kahn, archts. and engrs., 56 West 45th St., preparing plans for 16 story brick, steel and stone, brick foundation, on 36th St. and 7th Ave. About $1,200,000. Owner's name withheld.

**N. Y., New York**—School—Dept. Educ., 500 Park Ave., having plans prepared by C. B. J. Snyder, archt. and engr., Municipal Bldg., for 5 story brick and limestone addition, brick foundation, at 205 East 109th St. About $200,000.

Buildings (Continued)

**N. Y., New York**—Theatre—Consolidated Amusement Enterprises, 2139 8th Ave., having plans prepared by De Rosa & Pereira, archts. and engrs., 110 West 40th St., for brick and steel, brick foundation, (600 seating capacity) on 9th Ave. and 45th St. About $75,000.

**N. Y., New York**—Theatre—B. S. Moss, 112 West 42nd St., plans to build brick and steel, brick foundation, on Dyckman St. About $200,000. De Rosa & Pereira, 110 West 40th St., archts. and engrs.

**N. J., Toms River**—Jail—E. R. Yoden, chn. bldg. com. Ocean Co., rejected bids, and having revised plans prepared altering and building 2 and 2½ story, 36 x 36 and 26 x 37 ft. rein.-con. addition to jail, here. About $50,000. T. Stephen, Temple Bldg., Camden, archt. Noted July 17.

**Pa., Midland** — Office — Crucible Steel Co. rejected bids building 5 story, 50 x 180 ft. rein-con. and brick, rein.-con. flooring, on Railroad Lane and 7th St. Project indefinitely postponed. Noted July 31.

**Pa., Pittsburgh**—E. B. Lee, archt., Chamber of Commerce Bldg., soon lets contract constructing 4 story, 81 x 120 ft. steel and brick building, concrete foundation, on Centre and Francis Sts., for Y. M. C. A. About $100,000. (Contracts will be awarded separately; no general contractor.) Noted May 29.

**Md., Baltimore**—Store—Williams, Belmont & Co., 8-10 South Howard St., seeking site and plans to build department store. About $250,000. H. Stein, mgr.

**Md., Jessups** — Correction House — Maryland State Bd. of Prison Control, 701 Union Trust Bldg., Baltimore, plans to alter and build additions to House of Correction, here, steel and brick, concrete foundation. About $150,000. R. D. Case, secy. T. W. Pietsch, 1210 Amer. Bldg., Baltimore, archt.

**W. Va., Charleston**—City Hall, etc.—City voted $1,000,000 bonds to build new city hall, central fire station and 3 sub-stations, also build sewers and pave various streets. E. Bruce, Charleston, engr.

**W. Va., Charleston**—Mercantile—Abney Barnes & Co., 812-18 Virginia St., having plans prepared by C. H. Higgins, archt., 19 West 44th St., New York, for 7 story, 100 x 150 ft. rein.-con., steel and brick, on Virginia and McFarland Sts.

**W. Va. Huntington**—Store—Morrison Co., 831-833 4th Ave., plans to construct 4 story, 45 x 200 ft. fireproof store building. Cost between $60,000 and $80,000. F. B. Starcher, pres. Architect not selected.

**Ga., Americus**—School—School Bd. voted $60,000 bonds to build school in Thalean Dist.

**Tenn., Dyersburg** — Church — Methodist Episcopal congregation had plans prepared by Mahan & Broadwell, archts., Germania Bank Bldg., Memphis, for 1½ story, 75 x 200 ft., concrete and brick. About $150,000.

**Ky., Ashland** — Store—Field Furniture Co. soon lets contract building 6 story, 30 x 145 ft., concrete and brick, on Main St. About $175,000. E. L. Packard, Hayden Bldg., Columbus, O., archt. Noted July 24.

**O., Canton**—Store and Office—C. N. Vickary, 314 Market St., plans to build 12 story, 50 x 75 ft., steel and brick, brick foundation. Starrett & Van Vleck, 8 West 40th St., New York City, archts. and engrs.

**O., Cleveland**—Bank—Citizens Savings & Trust Co., East 9th St. and Euclid Ave., having plans prepared by Graham, Anderson, Probst & White, engrs., Ry. Exch. Bldg., Chicago, for 11 story, 140 x 200 ft., rein.-con., steel and brick, here. About $8,000,000.

**O., Cleveland**—Chapel—Schauffler Training School, 5111 Fowler Ave., plans to build 1 story, 41 x 105 ft., rein.-con., steel and brick, on Bway. Ave. About $60,000. Architect not selected.

**O., Cleveland**—Commercial—F. A. Foyle, Schofield Bldg., plans to build 6 story, 88 x 100 ft., rein.-con., steel and brick, on East 13th St. and Chester Ave. About $50,000. Architect not selected.

**O. Cleveland**—Commercial—G. D. Koch & Sons Co., 10300 Euclid Ave., having plans prepared by Serv. Constr. Co., archts., 6110 Euclid Ave., for 3 story, 90 x 200 ft., rein.-con., steel and brick, at 10007 Euclid Ave. About $100,000. Noted May 29.

**O., Cleveland**—Commercial—C. H. Snearer Co., 72 Wymore St., having plans prepared by G. B. Post & Son, archts., 1109 Schofield Bldg., for 4 story, 80 x 279 ft., rein.-con., steel and brick, at 10022 Euclid Ave. About $150,000. Noted July 24.

**O., Cleveland**—Office—H. P. McIntosh, Euclid Ave., plans to build 3 story, 70 x 135 ft., rein.-con., steel and brick addition. About $150,000. Architect not selected.

**Mich., Detroit** — Clubhouse—Defteaptape Romane Society having revised plans prepared by P. J. Rosello, archt., 406 Congress Bldg., for 2 story, 60 x 118 ft., brick and steel, on Farnsworth and Russell Sts. About $65,000. Noted July 17.

**Mich., Detroit**—Hotel—J. J. Barlum, 319 Lincoln Ave., had plans prepared by R. A. Bailey, archt., 47 Hendricks St., building 8 story, 30 x 36 ft., rein.-con., brick and steel, concrete foundation, on Farmer and John R. Sts. About $90,000.

**Ill., Aledo** — High School — City having plans prepared by Whitsitt & Schulzke, archts., 610 People's Bank Bldg., Moline, for high school here. About $150,000.

**Wis., Packwaukee** — Hospital—Creamer Memorial Institute, 200-204 Grand Ave., Milwaukee, having plans prepared by Kaches & Pfaller, archts. and engrs., 634 Merchants' and Manufacturers' Bank Bldg., Milwaukee, building 3 story, 80 x 100 ft., rein.-con. sanitarium and power plant, here. About $100,000.

**Wis., Stitzer**—Bank—Stitzer State Bank plans to build 2 story, brick, rein-con. and steel, brick foundation, on Main St. About $50,000.

**Minn., Chisholm**—Community and Recreation—J. Austin, mayor, receives bids about Sept. 20, building 2 story, 200 x 200 ft. brick, rein.-con. and stone, rein.-con. flooring concrete foundation, on Main St. About $350,000. A. Puck, Torrey Bldg., Duluth, archt. and engr.

**Minn., Clooquet** — Theatre — O. W. Erickson having plans prepared by Kelly & Shefchik, archts., Alworth Bldg., Duluth, building 1 story, 67 x 119 ft. brick, rein.-con. and steel. About $75,000.

**Minn., Deer Creek**—High School—Bd. Educ. having plans prepared by Foss & Foss, archts. St. Cloud, for 2 story, 70 x 120 ft., brick and Kasota stone. About $61,000.

**Minn., Hopkins**—Community—Town plans to build community house. About $60,000. W. Hamilton, c/o Northrup, King & Co., 15th Ave., N. E., interested C. S. Sedgwick, Lumber Exch., Minneapolis, archt.

**Minn., Newport** — Housing — Farmers Terminal Packing Co., 919 Commerce Bldg., St. Paul, having plans prepared by O. N. Newstrom & Co., archts., 917 Andrus Bldg., Minneapolis, building twenty-five 1 and 1½ story, 20 x 22 ft. houses for workmen. About $2200 each. H. Edmunds, secy.

**Minn., Willmar** — Business — Willmar Tribune plans to build brick and concrete business block. About $70,000. W. L. Alban, Endicott Bldg., St. Paul, archt.

**S. D., Clear Lake**—Hotel—Clear Lake Bldg. Co. having plans prepared by U. L. Freed, archt., Watertown, for 3 story, 35 x 90 ft., brick and stone. About $60,000.

**Wyo., Cheyenne**—High School—Bd. Educ. plans to build high school. About $150,000. A. S. Jessup, supt. Architect not selected.

**Wyo., Thermopolis**—Theatre and Office—Bereleos & Brahos, soon receive bids for 3 story, 60 x 140 ft. About $87,000. Link & Haire, 317 Electric Bldg., Billings, Mont., archts.

**Mont., Great Falls**—School—School Dist. receives bids in September building Roosevelt Grade School, on 2nd Ave., N., and 26th St. About $250,000. Bird & Van Tylingen, 814 1st Natl. Bank Bldg., archts.

**Mo., Independence**—Community—Latter Day Saints congregation, c/o B. R. McGuire, has acquired site and plans to build community center. About $70,000. Architect not selected.

**Mo., St. Louis**—Church—C. Archibald, pastor, Goodfellow Methodist congregation, 1800 Goodfellow Ave., soon receives bids building 90 x 150 ft., stone and brick, concrete foundation, on Goodfellow Ave. About $60,000. H. M. Gelding, Odd Fellows Bld., archt.

**Mo., St. Louis**—Hotel—LaBaume & Klein, archts., Chemical Bldg., soon receives bids altering and building brick, steel and rein.-con. addition to Planters Hotel, 4th and Pine Sts. About $200,000.

**Mo., St. Louis**—Music Hall and Store—Scruggs, Vandevoort & Barney, 9th and Olive Sts., plan to build 16 story music hall and alter present store. About $50,000.

**Mo., Webster Groves** (St. Louis P. O.)—Algonquin Golf Club had preliminary plans prepared building concrete and brick clubhouse. About $50,000. Architect not selected.

**Tex., Ennis**—Church—Tabernacle Baptist congregation plans to build new church. Cost between $50,000 and $75,000.

**Tex., Stephenville**—Church—First Baptist congregation plans to build church. About $75,000.

**Okla., Duncan**—Court House and Jail—Comrs. Stephens Co. plan election to vote on $150,000 bonds to build court house and jail.

**Okla., Fairfax**—City Hall—City election Sept. 16 to vote on $50,000 bonds to build new city hall.

**Okla., Pauls Valley** — Hospital—Garvin Co. election Sept. 16 to vote on $95,000 bonds to build memorial hospital.

**Okla., Tulsa**—Hotel—Eastern capitalists of New York and Baltimore, had plans prepared by Schumacher & Atkinson, archts. and engrs., 816 Mayo Bldg., for 10 story, 75 x 140 ft., brick and rein.-con., on Main St. south of 4th St., here. About $1,000,000.

**Okla., Tulsa**—Temple—Tulsa Masons, c/o M. C. Hale, plan to build 3 story, 75 x 140 ft., brick on 7th and Boston Sts. About $250,000. Architect and engineer not selected.

**Colo., Denver**—Church—Church Trustees of Fourth Christian Science Church soon receive bids for 97 x 140 ft., brick, steel and stone, rein.-con. flooring, concrete foundation, on West Lake Pl. and Grove St. About $75,000. M. H. Hoyt, Colorado Natl. Bank Bldg., archt.

**Colo., Denver**—Synagogue—Beth Hamedrosh Hagodol Corp. having plans prepared by Montjoy, French & Frewen, archts., Chamber Commerce Bldg., for 2 story, 95 x 120 ft., steel, brick and timber, rein.-con. and maple flooring, concrete foundation, on 16th Ave. and Kaylord St. About $100,000.

**Utah, Salt Lake City**—School—School Bd. receives bids about Sept. 8, building 1 story, 66 x 100 ft., brick addition to Franklin School. About $60,000. Scott & Welch, Dooley Bldg., archts. and engrs.

**Wash., Seattle**—Hotel—M. Young, c/o Young & Young Real Estate Co., Lumber Exch. Bldg., having plans prepared by V. W. Voorhees, archt., Eitel Bldg., for 3 story, brick, concrete foundation, on Capital Hill, 11th Ave. and Federal St. About $80,000.

**Wash., Yakima** — Bank—Yakima Valley Bank having plans prepared by A. E. Doyle, archt., Worcester Bldg., Portland, Ore., for 2 story terra cotta and marble, concrete foundation. About $85,000.

**Ore., Klamath Falls**—Court House—Klamath Co. plans to remodel and build 2 story brick or stone addition, in Hot Spring addition. About $175,000. A. F. Heide, Klamath Falls, archt.

**Cal., Los Angeles**—Theatre—S. Grauman, c/o Grauman's Theatre, 307 South Bway., acquired 154 x 204 ft. site on 6th and Hill Sts., and plans to build theatre with 150 ft. tower, probably rein.-con. Architect and engineer not selected.

**Cal., San Francisco** — Office — Fireman's Fund Insurance Co., 401 California St., having plans prepared by L. P. Hobart, archt., Crocker Bldg., for 3 additional stories to office building, on California and Sansome Sts. About $250,000.

**Ont., Hamilton**—Office—Sun Life Assurance Co., Sun Life Bldg., Toronto, having plans prepared by Chadwick & Beckett, archts., 132 Church St., Toronto, for 3 story, 40 x 100 ft., steel and brick, rein.-con. flooring, concrete foundation, on St. James St. N. About $70,000.

**Buildings (Continued)**

**Ont., Toronto**—Stores and Offices—W. Davies Co., Ltd, 521 Front St. E., retained Hynes, Feldman & Watson, archts., McKennon Bldg., to prepare plans for 3 story, concrete, steel and brick, rein.-con. flooring, concrete foundation. About $150,000.

**BIDS DESIRED**

**Mass., Framingham** — Dormitory—Until Sept. 16, by State Bd. Educ., Boston, building 3 story brick, for State Normal School, here. C. Baker, 150 Devonshire St., Boston, archt. Noted Jan. 23.

**N. Y., Norwich**—Library, etc.—Until Sept. 15, by Tooker & Marsh, archts. and engrs., 101 Park Ave., New York City, building brick, steel and stone, here, for city. About $125,000. Noted Aug. 21.

**Pa., Bethlehem**—School—Until Sept. 6, by Bd. Educ., building 3 story, 180 x 250 ft., rein.-con., stone and brick, on South Side. About $300,000. V. T. Ritter, North Amer. Bldg., Phila., archt.

**O., Columbus**—Salesroom—See "Industrial Works."

**Wis., Sheboygan**—Office—Until Sept. 6, by Brust & Philipp, archts., Free Press Bldg., Milwaukee building 3 story 60 x 145 ft. brick, rein.-con. and steel, rein.-con. flooring, brick foundation, on Michigan Ave., for Vollrath Co., West Michigan Ave. About $55,000. Noted Aug. 28.

**Wis., Sheboygan**—School—Until Sept. 10, by R. R. Jahn, archt. Busy Ross Bldg., building 2 story, 40 x 110 ft. brick, rein.-con. and steel, brick foundation, in Dist. No. 1.

**Minn., Hibbing**—Recreation—Until Sept. 9, by W. J. Power, mayor, building 2 story, 135 x 251 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on 1st Ave. and Jackson St. About $350,000. Halstead & Sullivan, Palladio Bldg., Duluth, archts. and engrs.

**Minn., Montevideo**—Theatre and Office—Until Sept. 20 (change of date), by F. D. Lorene, secy. Home Bldg. Assn., Inc., building 3 story, 50 x 120 ft., concrete, brick and terra cotta. About $65,000. P. O. Moe, 616 New York Life Bldg., Minneapolis, archt. Noted Aug. 14.

**Kan., Holton**—Court House—Until Sept. 22, by Comrs. Jackson Co., furnishing labor and material building court house. T. W. Williamson & Co., 418 Central Bank Bldg., Topeka, engrs.

**Kan., Manhattan** — Engineering — Until Sept. 27, by J. A. Kimball, state business manager, State House, Topeka, building 2 story building for Kansas Agricultural College. About $190,000. Noted Aug. 14.

**S. D., Madison**—Hospital—R. S. Westaby and others, receiving bids for 3 story, 49 x 180 ft., rein.-con., tile and brick, tile flooring. About $80,000. P. O. Moe, New York Life Bldg., Minneapolis, Minn., archt.

**Okla., Elk City**—High School—Until Sept. 20, by Bd. Educ. and Hawk & Parr, archts., Security Bldg., Oklahoma, building 2 story, 60 x 195 ft. About $125,000. A. L. Richards, supt. Noted Apr. 3.

**Utah, Salt Lake City**—High School—Until Sept. 15, by Bd. Educ., building 2 story, 66 x 155 ft., rein.-con. and brick, to be known as West Junior High School. About $120,000. Scott & Welch, Dooley Bldg., engrs. and archts.

**N. B., Moncton**—Office—Until Sept. 25, by C. B. Brown, ch. engr. Canadian Natl. Rys., Moncton, building 2 story, 42 x 110 ft. concrete and timber, concrete foundation. About $62,000.

**Que., Cap de la Madeline**—Church—Until Sept. 20, by A. Candal, archt., 502 St. Catharine St., Montreal, building 50 x 80 ft., concrete, steel and brick, concrete foundation, on St. Famile St., for Parish Church congregation. About $60,000.

**PRICES AND CONTRACTS AWARDED**

(★Indicates award of contract)

★**Vt., Bennington**—Nurses' Home—Bennington Hospital let contract building 2 story, brick, steel and stone, brick foundation, to C. M. Cruikshank, 103 Park Ave., New York City. About $100,000.

★**Mass., Athol**—Church—Polish Church, Main St., let contract building 1 story brick and stone, concrete foundation, to C. S. Hardy, 60 Northampton St., Springfield. About $50,000.

★**Mass., Boston**—Sales, etc.—J. Shapiro will construct 2 story, 60 x 220 ft. rein.-con. sales building and garage, rein.con. flooring, concrete foundation, on Commonwealth Ave. (pile driving) to, W. S. Rendle, East Boston. Balance of work will be done by day labor.

★**Mass., Boston**—Sales—Snider & Rudnick Co., 25 Gibbs St., Brookline, will build 4 story, 120 x 200 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation, on Commonwealth Ave., here. Work will be done by day labor.

★**Mass., Boston**—School—Bd. Educ. let contract building 2 story, 61 x 70 ft. concrete foundation, in Wolcott Dist., to McGahey & O'Connor Co., 551 Columbia Rd. About $95,300.

★**R. I., Providence** — Office — Jackson, Robertson & Adams, archts., Turks Head Bldg., let contract to C. I. Bigney Constr. Co., 898 Westminster St., for 4 story, 58 x 123 ft. with 63 x 113 ft. el., brick, concrete and steel, rein.-con. flooring, concrete foundation, on West Exchange St., for Genl. Fire Extinguisher Co. About $160,000. Noted July 31.

★**Conn., Hartford**—School—Art Society of Hartford, 904 Main St., let contract building 1 story, 35 x 121 ft., brick and steel, concrete flooring and foundation, on Collins St., to Porteus-Walker Co., 13 Forest St. About $50,000.

★**N. Y., Brooklyn** — Theatre — A. A. Schwartz, 815 Flatbush Ave., will build 1 story, 175 x 175 ft. brick and steel, brick foundation, on Fulton St. and New York Ave. About $500,000. Work will be done by day labor.

★**N. Y., S. I., Dongan Hills**—School—C. B. J. Snyder, supt. school bldgs., Municipal Bldg., New York City, received bids Aug. 25 building P. S. No. 11, on Jefferson Ave., between Garretson and Cromwell Aves., Richmond Boro., from J. MacArthur, $179,424; W. McKenzie, $208,000. Noted Aug. 21.

★**N. Y., New York**—Hotel—One Hundred Ten West 55th St., Inc., 19 West 44th St., let contract building 15 story brick stone and steel, brick foundation, at 110-120 West 55th St., to F. T. Ley, 19 West 44th St. About $560,000.

★**N. Y., New York**—Hotel—Starrett & Van Vleck, archts and engrs., 8 West 40th St., let contract to F. T. Ley, 19 West 44th St., for 15 story, 80 x 115 ft. brick, steel and stone, brick foundation, on 72nd St. and West End Ave. About $1,000,000. Owner's name withheld. Noted Aug. 21.

★**N. Y., New York**—Hotel—Thirty West 59th St., Incorporated, 120 Bway., will build 14 story 50 x 79 ft., brick, steel and stone, brick foundation, at 30 West 59th St. About $450,000. Work will be done by day labor. Noted Aug. 21.

★**N. Y., New York**—Loft—E. A. Hoffman, Inc., 122-124 5th Ave., will alter 10 story brick and steel. About $50,000. Work will be done by day labor.

★**N. Y., New York**—Theatre—B. F. Keith, 1564 Bway., let contract building 3 story, 200 x 228 ft. brick stone and steel, brick foundation, on Fordham Rd. and Valentine Ave., to Fleischmann Constr. Co., 531 7th Ave. About $300,000. Noted Feb. 6.

★**N. J., Bloomfie'd**—Office and Salesroom—Lehn & Fink, 120 Williams St., New York City, let contract building 2 story, brick, steel and stone, here, to C. R. Hedden, Prudential Bldg., Newark.

★**Pa., Hazelton**—School—Bd. Educ. let general contract building 2 story, 60 x 300 ft., steel and brick, rein.-con. foundation, rock foundation, on Church to H. Mailander, 167 Barney St., Wilkes-Barre, $258 635, heating and ventilating, to Lewis & Capron, 910 South Michigan St., Chicago, Ill., $34,686. Noted Aug. 14.

★**Pa., Hazelwood**—Church—Hazelwood Presbyterian congregation let contract building 1 story, 70 x 100 ft. on Glenwood and Johnston Sts., to H. Busse, Main and Wabash Sts. About $50,000.

★**Pa., West Bethlehem**—(Bethlehem P. O.)—School—Bd. Educ. let contract building 2 story, 176 x 185 ft., rein.-con. and brick, to F. J. Groman & Son, Union St. between 8th and 9th Aves., Bethlehem, $128,137. Noted Aug. 14.

★**La., New Orleans**—Theatre—Orpheum Circuit, 1564 Bway., New York City, let contract building 3 story, 115 x 120 ft., rein.-con., steel and brick, rein.-con. flooring, pile foundation, on University St., to Murch Bros Constr. Co., Ry. Exch. Bldg., St. Louis, Mo. About $750,000. Noted Jan. 23.

★**Tenn., Memphis**—Theatre—M. Loew, 1492 Bway. New York City, let contract building 100 x 100 ft., brick, steel and stone, brick foundation, on Union Ave., here, to Fleischman Constr. Co., 531 7th Ave., New York City. About $300,000. Noted June 19.

★**O., Cleveland**—Bath House—City let contract building 2 story, 70 x 76 ft., rein.-con., tile, steel and brick, on East 63rd St. and St. Clair Ave., to Natl. Concrete Fireproofing Co., Citizens Bldg. About $50,000.

★**O., Cleveland**—Theatre and Office—A. M. Allen Co., engrs., 1900 Euclid Ave., let confract to J. Gill & Sons Co., Citizens' Bldg., for 10 story, 150 x 225 ft., rein.-con., steel and brick, on East 14th St. and Euclid Ave., here, for Allen Bros., Richmond St., Toronto, Ont. About $275,000. Noted Aug. 28.

★**O., Cleveland**—Theatre and Office—J. Laronge, 214 Williamson Bldg., let contract building 10 story, 160 x 188 ft., rein.-con., terra cotta, steel and brick, on East 14th St. and Euclid Ave., to Craig Curtiss Co., Guardian Bldg. About $3,000,000. Noted Aug. 14.

★**O., Cleveland**—Theatre—W. S. Ferguson Co., archts., 1900 Euclid Ave., let contract to Boldt Constr. Co., 6110 Euclid Ave., building 2 story, 60 x 140 ft., rein.-con., steel and brick, at 10705 Miles Ave., for Corlett Realty Co., 12613 Miles Ave. About $85,000. Noted July 17.

★**O., Columbus**—Office—Gasco Realty Co., Chestnut and High Sts., let contract remodeling Gasco Bldg., to Frankenberg Constr. Co., Columbus Savings and Trust Bldg. About $75,000.

★**O., South Euclid**—School—Bd. Educ. let contract building 1 story, 75 x 150 ft., rein.-con., steel and brick, to Kelly Demarest Co., Amer. Trust Bldg., Cleveland. About $150,000. Noted Aug. 14.

★**O., Springfield**—Office—See "Industrial Works."

★**Ill., Moline** — School — Whitsitt & Schulzke, archts., 610 People's Bank Bldg., let contract to Central Eng. Co., 711 Putnam Bldg., building 1 story, 100 x 128 ft. brick, on 16th Ave. and 25th St., for Bd. Educ. About $60,825. Noted July 17.

★**Wis., Kenosha**—Grade School—Bd. Educ. let contract building 2 story, 140 x 180 ft brick and stone, concrete foundation, on West Side, to Madsen & Peterson, 802 Plymouth Bldg., Minneapolis, Minn. About $200,000.

★**Wis., Montford**—School—Bd. Educ. let contract building 2 story, 75 x 104 ft., brick, rein.-con. and tile, brick foundation, on Main St., to W. J. Neidner, Madison. About $65,000. Noted June 5.

★**Minn., Bemidji**—School—Bd. Educ. let contract building 3 story, 38 x 58 ft., in Dist. No. 48, to Jackson & Winklesky, Bemidji. About $72,000. Noted July 31.

★**Minn., Minneapolis**—School—Bd. Educ. let contract building 3 story, 63 x 116 ft., brick and concrete addition to Willard School, on Queen St. and 16th Ave., N., to Madsen Constr. Co., Builders Exch., $84,111. Noted Aug. 14.

★**Minn., Winona**—Dormitory—State Bd. Control, Capitol, St. Paul, let contract building 3 story, 46 x 130 ft., at State Normal School, here, to H. W. Seidlitz, Winona, $93,500. Noted June 26.

★**Mont., Lewistown**—High School—Fergus Co. let general contract building county high school, to Gagnon Co., 201 North 21st St., Billings, $144,000, plumbing and heating, to E. J. Kane, 201 West Bway., $27,598.

★**Mo., St. Louis**—Bank, Office and Clubhouse—W. R. Compton & Co., Merchants Laclede Bldg., let contract altering and constructing concrete, steel and brick addition to present 10 story, 125 x 200 ft. building, at 704 Locust Ave. to W. M. Sutherland Bldg. & Contg. Co., Syndicate Trust Bldg. About $250,000.

★Mo., St. Louis—Church—Oak Hill Presbyterian Congregation let contract building 2 story, 62 x 84 ft. stone and brick addition, on Connecticut Ave., to T. C. Reeves, Odd Fellows Bldg About $50,000.

★Mo., St. Louis — Exchange — Southwestern Bell Telephone Co., Boatmen's Bldg., let contract constructing 1 story, 60 x 120 ft. brick, steel and concrete addition to present building, on 10th and Olive Sts., to Murch Brothers Constr Co., Ry. Exch. Bldg. About $75,000.

★Mo., St. Louis—Hospital—Bd. Pub. Serv. let general contract building 4 story, 54 x 125 ft., brick and concrete, to M. C. Bartels Constr. Co., 4224 Bingham Ave., cost $201,232; heating, to Peters-Eichler Heating Co., 1516 Pine St., $11,997; plumbing, to Tower Plumbing Co., 1305 Pine St., $56,558. Noted July 31.

★Mo., St. Louis—Mercantile—Baker Investment Co., Odd Fellows Bldg., will build 5 story, 70 x 125 ft., brick and concrete. About $50,000. Work will be done by day labor.

★Mo., St. Louis—Office and Loft—G. D. Hall Realty Co., 823 Chestnut St., let contract building 5 story, 150 x 200 ft. brick, steel and rein.-con., at 1409 Washington St., to Murch Bros. Constr. Co., Ry. Exch. Bldg. About $150,000.

★Mo., St. Louis—Stores and Office—Bell Realty Co., Wright Bldg., let contract building 3 story, 90 x 175 ft. brick and concrete, rein.-con. flooring, rock foundation, on Natural Bridge Rd., to J. J. Conkling, Kansas City. About $180,000.

★Mo., St. Louis—Theatre and Office—Missouri Theatre Co., c/o Mercantile Trust Co., 8th and Locust Sts., let contract building 2 story brick, steel and stone, to Fleischmann Constr. Co., 531 7th Ave., New York City. About $350,000. Noted July 24.

★Okla., Oklahoma—Bank — Tradesmens State Bank let contract building 10 story, 80 x 140 ft. concrete, steel, stone and terra cotta, on Main St. and Bway., to Reinhart & Donovan, 721 Insurance Bldg. About $400,000.

★Utah, Salt Lake City—Hospital—Salt Lake Co. let contract building 3 story, 200 x 200 ft. hospital on South State St., to T. J. Armstrong, 1343 McClelland St., $274,156.

★Nev., Winnemucca—Court House—Bd. Supervs. Humboldt Co. let contract building 2 story, rein.-con., granite and terra cotta, to H. S. Williams, Hearst Bldg., San Francisco, $134,821. Noted Aug. 28.

★Cal., San Francisco—Loft—See "Miscellaneous."

★Que., Montreal — Theatre, etc. — D. Peogantes, 303 Esplanades Ave., let contract building 50 x 84 ft., steel and brick, rein.-con. flooring, concrete foundation, on Notre Dame St., to T. Atsalinos, 105 Dorchester St. W. About $60,000.

## Federal Government Work

### PROPOSED WORK

Mass., Boston—Dredging and Retaining Wall—Light House Supt., Boston, rejected bids received Aug. 1, dredging and building retaining wall at Chelsea Depot. Noted July 10.

Md., Annapolis—Paving—Spec. 4028—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans, here. About $25,000.

D. C., Wash.—Buildings—Constr. Div., War Dept., recommended following construction at Army Camps:

Additional buildings, Camp Holabird, Md. About $313,000.

Purchase of real estate and new buildings, Camp Knox, Ky., $1,200,000 and $650,000 respectively.

Purchase of real estate, Watervliet Arsenal, N. Y., $300,000.

Additional buildings, Chanute Field, Ill., $208,000.

Coast Artillery School, Camp Eustis, Va., $51,300

Additional buildings for Engineer School, Camp Humphreys, Va., $20,400.

D. C., Wash.—Quay Wall Extension—Spec. 4015—Bureau Yards & Docks, Navy Dept., plans to build at Navy Yard.

Va., Salem—Post Office—Treas. Dept. Wash., D. C., rejected bids received Aug. 14, building post office, here. Noted July 17

Wis., Milwaukee — Revetment Repairs—U. S. Engr. Office, Milwaukee, rejected bids received June 30, repairing pier, superstructure, etc. Noted June 12.

Wyo., Wind River—Dam—Federal Government appropriated $50,000 to build concrete diversion dam across Big Wind River at intake of ditch No. 2, Old Wyoming Central Irrigation Project: W. P. Webber, engr.

Tex., Galveston — Jetty Repairs—U. S. Engr. Office, Galveston, rejected bids received June 18, repairing north jetty, Galveston Harbor. Noted May 29.

Cal., San Diego—Hospital—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to construct naval hospital buildings, at Balboa Park, here. About $1,000,000.

P. R., San Juan—Dredging and Filling—U. S. Engr. Office, San Juan, rejected bids received July 28, dredging San Juan Swamp and filling adjacent swamp lands with material dredged. Noted July 3.

### BIDS DESIRED

N. H., Portsmouth—Turbo Generator—Spec. 4017—Until Sept. 17, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing 1000 kw. turbo generator, here. Noted Aug. 14.

R. I., Newport—Dredging—Until Sept. 18, by U. S. Engr. Office, Newport, dredging entrance channel to Great Salt Pond, Block Island.

R. I., Newport—Structural Steel—Spec. 4023—Until Sept. 10, by Bureau Yards & Docks, Navy Dept., Wash., D. C., furnishing structural steel for Torpedo Repair Shop, here. About $10,000. Noted Aug. 21.

N. Y., Tompkinsville—Rip-rap—Until Sept. 8, by Lighthouse Supt., Tompkinsville, furnishing and placing 1500 tons rip-rap to protect Little Gull Island Light Sta., Long Island Sound.

N. Y., Tompkinsville—Rip-rap—Until Sept. 9, by Lighthouse Supt., furnishing and placing 2300 tons rip-rap, to protect Colchester Reef Light Sta. on Lake Champlain, near Winooski, Vt.

Pa., Lock Haven—Post Office—Until Oct. 10, by Treas. Dept., Wash., D. C., building, here. J. A. Wetmore, superv. archt.

D. C., Wash. — Damp-Proofing — Until Sept. 9, by Treas. Dept., damp-proofing Northwest Storeroom in Sub-Basement of new Treasury Annex.

S. C., Charleston—Dock—Until Sept. 30, by Constr. Quartermaster, Charleston, building dock at Ft. Sumter.

S. C., Charleston—Turbo Alternator—Spec. 4011—Until Sept. 17 by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing 2500 kw. turbo alternator in Central Power Plant, here. About $50,000. Noted July 31.

Tenn., Memphis — Levee Work — Until Sept. 11, by Mississippi River Comn., 1st and 2nd Dists., Custom House, building 2,270,000 cu.yd. earth work in Upper St. Francis, Lower St. Francis and White River Levee Dists.

O., Cleveland — Rubble Mound Breakwater—Until Sept. 30, by U. S. Engr. Office, Cleveland, building rubble mound extension of west breakwater, Lorain Harbor; advertised in this issue.

O., Cleveland — Rubble Mound Breakwater—Until Sept. 30, by U. S. Engr. Office, Cleveland, building rubble mound extension of wet breakwater, Ashtabula Harbor, advertised in this issue.

Hawaii, Pearl Harbor—Hospital—Spec. 3931—Until Sept. 30, by Bureau Yards & Docks, Wash., D. C., by Local Navy Yard, and by Navy Yard, Mare Island, Cal., building, here. About $300,000; $40 deposit required for plans and spec. Noted July 10.

### PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Me., Portland—Dredging—U. S. Engr. Office, Portland, let contract dredging Georges River and Tenants Harbor, to Boston Dredging Co., 172 Condor St., East Boston, Mass., $30,000. Noted May 29.

★Mass., Boston—Wharf—Light House Supt., Boston, let contract removing old wharf and building new wharf, at Chelsea Depot, to Aberthaw Constr. Co., 27 School St., $12,495. Noted July 10.

★N. Y., Buffalo—Dredging—U. S. Engr. Office, 504 Federal Bldg., let contract dredging in harbor at Ogdensburg, to W. P. Dailey, Ogdensburg, $64,515. Noted July 17.

★N. Y., Buffalo—Rubble Mound Protection, etc.—U. S. Engr. Office, 549 Federal Bldg., let contract building rubble mound protection and sand fill protection on Presque Isle Peninsula, Erie Harbor, Pa., to Great Lakes Dredging & Dock Co., Williamson Bldg., $214,320. Noted July 10.

★N. Y., New York—Removing Wreck—U. S. Engr. Office, 39 Whitehall St., let contract removing wreck of steamship Port Philip in main entrance to New York Harbor, to Atlantic Ship Salvage Corp 61 Bway., $5000. Noted June 26.

★N. J., Lakehurst—Mechanical Equipment—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract furnishing mechanical equipment for dirigible hangar to Lord Constr. Co., 105 West 40th St., New York City, $317,247. Noted Aug. 14

★Pa., Phila.—Boat and Storage Building—Spec. 4012—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, building here, to H. Foulkrod Co., 1406 Commonwealth Bldg., $284,078, (150 days). Noted Aug. 28.

★Pa., Phila.—Cranes—Spec. 4013—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing overhead cranes in boat and general storage building, here, to Niles, Bem... Pond Co., 111 Bway., New York City, $25,500. Noted Aug. 28.

Pa., Phila.—Repairing Dike—U. S. Engr. Office, Phila., received bids Aug. 19, repairing dike at Artificial Island, Delaware River, (1) riprap stone per ton; (2) rubble masonry per cu.yd. of masonry; (3) deduction per cu.yd. for rubble masonry for old stone recovered and used in work, from Piel Constr. Co., 2546 Edmonson Ave., Baltimore, (1) $17.20. (2) $55.93; D. L. Taylor & Co., 409 Finance Bldg., (1) $5.92. (2) $34.60. (3) $4.10. Noted July 24.

★D. C., Wash.—Canal Wall—Dist. Comrs., Dist. Bldg., let contract rebuilding portion of canal wall west of Aqueduct Bridge, to Hyde & Baxter, Wash. Noted Aug. 28.

D. C., Wash.—Fuel Oil—A. L. Flint, gen. purch. agt. for Panama Canal, Wash., received bids furnishing fuel oil for period of Sept. 1, 1919, to June 30, 1920. (1) 300,000 bbls. domestic production fuel oil; (1a) 300,000 bbls. foreign production; (2) 700,000 domestic production fuel oil; (2a) 700,000 bbls. foreign production, from Mexican Petroleum Co., 120 Broad St., New York City, (1a) $337,500, (2a) $931,000 (40 days); West India Oil Co., 26 Broadway, New York City, (1a) $336,000, (2a) $903,000, (30-45 days); Union Oil Co. of California, Compton Ave., Los Angeles, (2) $1,260,000, (60 days). Noted Aug. 14.

★D. C., Wash.—Grading—Dist. Comrs., Dist. Bldg., let contract grading and improving streets, roads and avenues, to Continental Contg. Co., 66 Knickerbocker Bldg., Baltimore, Md., and to Corson & Gruman, Wash. Noted July 24.

★Va., Norfolk—Roofing—Spec. 5005—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract roofing emergency hospital buildings, here, to J. B. Davies, 129 South Bromley Ave., Scranton, Pa., $24,706. Noted Aug. 28.

★W. Va., South Charleston—Steel Sash—Spec. 3914—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing steel sash in various buildings, to Detroit Steel Products Co., 2250 East Grand Blvd., Detroit, Mich., $124,929. Noted Aug. 7.

★Fla., Jacksonville—Coal—U. S. Engr. Office, Jacksonville, let contract furnishing coal, to Warrior Black Creek Coal Co., Amer. Trust Bldg., Birmingham, Ala., $15,440. Noted June 26.

★Fla., Jacksonville—Jetty—U. S. Engr. Office, Jacksonville, let contract building jetty at entrance to St. John's River, to R. G. Ross, 204 East Bay St., $36,000. Noted June 26.

★Ala., Florence—Air Compressors—U. S. Engr. Office, Florence, let contract furnishing air compressors, to Worthington Pump & Machinery Corp., 115 Bway., New York City, $24,300. Noted May 29.

★La., New Orleans — Bulkhead—U. S. Engr. Office Custom House, let contract building bulkhead at Southwest Pass, to L. F. Alexander, Audubon Bldg., $507,210. Noted May 29.

Federal Government (Continued)

★**O., Cincinnati**—Stone—U. S. Engr. Office, Custom House, let contract furnishing stone at Dam No. 39, Ohio River, to Western Rivers Co., Point Pleasant, W. Va., $36,800. Noted July 3.

★**Mich., Detroit**—Pier—Supt. of Lighthouses, Detroit, let contract building rein.-con. pier, at Little Rapids Cut, to J. E. Doherty Sons & Co., Saulte Ste. Marie, $4775.

★**Mich., Saulte Ste. Marie**—Dredging—U. S. Engr. Office, Detroit, let contract dredging Grosse Point Channel, Lake St. Clair, to Great Lakes Dredge & Dock Co., 104 South Michigan Ave, Chicago, Ill., $231,250. Noted Aug. 14.

★**Ill., Chicago**—Crib—U. S. Engr. Office, Federal Bldg., let contract building concrete caisson breakwater and lighthouse crib at Indiana Harbor, to Great Lakes Dredging & Drydock Co., 104 South Michigan Ave., $105,857. Noted July 10.

**Mo., Fayette**—Post Office—Treas. Dept., Wash., D. C., received only bid building here, from W. D. Lovell, 1415 South East 8th St., Minneapolis, Minn., $61,847. Noted June 24.

★**Cal., Mare Island**—Completing Structural Shop—Spec. 3719—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract completing 300 x 600 ft. structural shop, here, to Clinton Constr. Co., 140 Townsend St., San Francisco, $491,000. Noted Aug. 28.

## Miscellaneous

### PROPOSED WORK

**Lumber—Brooklyn, N. Y.**—E. Riegelmann, boro. pres., rejected bids received Aug. 20, furnishing and delivering 105,400 ft lumber. Work will be readvertised. Noted Aug. 14.

**Pier and Bulkheads—Perth Amboy, N. J.**—City having plans prepared by Lockwood-Green, engrs., 101 Park Ave., New York City, building rein.-con. and steel piers and bulkheads. About $100,000.

**Pier—Canton, Md.** (Baltimore P. O.)—Canton Co., Commerce and Water Sts., Baltimore, plans to build 1700 ft., rein.-con. pier, 270 ft. wide, concrete piling and earth approach and fill. Plans also include railroad tracks down center and sides of pier and dredging of 35 ft. channels on both sides connecting with Patapsco River Channel. About $750,000. W. B. Brooks, pres.

**Parks and Playgrounds—Dayton, O.**—City plans election soon to vote on $283,000 bonds to purchase and improve various parks and playgrounds. O. E. Eichelberger, city engr.

**Seawall—Detroit, Mich.**—Dept. Parks and Blvds., 822 Farwell Bldg., soon lets contract furnishing labor and material, building rein.-con. seawall on west end Belle Isle. About $30,000.

**Band Stand—St. Louis, Mo.**—L. R. Bowen, City Hall, soon lets contract building brick, timber and slate band stand, tile, slate shingle or asbestos roofing, in Soulard Park. About $15,000.

**Transmission Lines, Dam, Etc.—Albuquerque, N. M.**—See "Industrial Works."

**Dock—Portland, Ore.**—M. Barde & Son, Inc., 240 Front St., plan to remove old dock at foot of Main St. and build 62 x 124 ft. modern structure. About $20,000.

**Retaining Wall, Etc.—Portland, Ore.**—Meade Estate plans to build retaining wall of solid concrete, rebuild superstructure of dock recently damaged by fire, occupied by Lilly Seed Co., near Hawthorne Bridge, and install sprinkler system. About $50,000. F. W. Strong, Portland, and E. B. MacNaughton, 464 Boulevard, representatives.

### BIDS DESIRED

**Garbage Incinerator—Syracuse, N. Y.**—Until Sept. 8, by Bd. Contr. & Supply, building garbage incinerating plant on Hiawatha St. Former bids rejected. Noted Aug. 14.

**Drainage Equipment—Peoria, Ill.**—Supervs. of an established Drainage District in eastern Missouri desire to get in touch with contractors who have equipment suitable for ditch cleanout work. Address Elliott & Harmon Eng. Co., 144 Fredonia Ave., Peoria; advertised in this issue.

**Breakwater—White Point, N. S.**—Until Sept. 17, by Dept. Pub. Wks., Ottawa, Ont.; building extension to breakwater here, crib work with stone fill, 50 ft. long, 30 ft. wide, involving 10,000 ft. timber. About $11,000. E. Lafleur, c/o Dept. Pub. Wks., engr.

**Breakwater—Little Brook, N. S.**—Until Sept. 25, by Dept. Pub. Wks., Ottawa, Ont., repairing breakwater here, crib work and stone fill, 123 ft. long, 12 ft. wide. About $12,000. E. Lafleur, c/o Dept. Pub. Wks., engr.

**Wharf—Depot Harbor, Ont.**—Until Sept. 12, by Dept. Pub. Wks., Ottawa, Ont., renewing wharf here, crib work and stone fill, concrete on face and part of top, 525 ft. long, 80 ft. wide. Work involves 1700 cu.yd. mass concrete. About $34,000. E. Lafleur, c/o Dept. Pub. Wks., engr.

**Wharf—La Pas, Man.**—Until Sept. 11, by Dept. Pub. Wks., Ottawa, Ont., building wharf here, 180 ft. long, 24 ft. wide, involving 4500 lin.ft. wood piling and 3000 ft. B. M. sheet wood piling. About $19,000. E Lafleur, c/o Dept. Pub. Wks., engr.

### PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

**Miscellaneous Supplies—Boston, Mass.**—City received bids furnishing ten 16 in. ¼ curves, one hundred 6 in. sleeves, two hundred 12 in. sleeves, one hundred 6 in. gate tops and bottoms, one hundred 8 in. gate tops and bottoms, two hundred 12 in. gate tops and bottoms, eleven 16 in. gate tops, twenty-one 16 in. valves, 150 hydrant barrels, 250 hydrant pots, fifty 12 x 6 in.-3 way 2 bell branches, two 16 x 16 in.-3 way 2 bell branches, fifty 12 x 6 in.-3 way 2 bell branches, ten 16 x 6 in.-3 way 2 bell branches, twenty-five 6 in caps, twenty 6-4 reducers, fifty 8-6 reducers, twenty 12-10 reducers, twenty 4 in. offsets, fifty 6 in. offsets, 500 sidewalk tops, all No. 1 castings, total weight, 200 ton, from Davis Fdry. Co., Waltham. @$0.05 per lb.; Davis & Farnum, Waltham, $0 525 per lb., Central Fdry. Co., Roxbury, 0.535 per lb.

★**Subway Station—Boston, Mass.**—Boston Elevated Ry., 101 Milk St., let contract building rein.-con. subway station with 350 ft. platform, to H. Nawn Constr. Co., 82 Savin St., Roxbury. About $400,000, cost plus percentage basis.

★**Asphalt—Brooklyn, N. Y.**—E. Riegelmann, boro. pres., let contracts furnishing and delivering 160,000 gal. refined asphalt in liquid form and 50 ton of 2000 lb. each in package, to Warner Quinlan Co., 79 Wall St., New York City, $9277; 3500 bbl. Portland cement, to D. A. Glober, $10,815; 100 ton limestone, to New York Trap Rock Co., 17 Battery Pl., New York City, $8950; 400 cu.yd. paving gravel, to C. A. Myers, Stagg St., $1263; 100 ton paving pitch, to T. B. Brett Co., 17 Battery Pl., $2000; 4000 cu.yd. asphalt sand, to J. J. Quinn, Gravesend Ave., $7600; 1200 cu.yd. binder stone, to G. Tompkins, $2728; regulating and grading Vermont Ave, to C. A. Myers, Stagg St., $2206. Noted Aug. 14.

★**Tracks—Brooklyn, N. Y.**—J. H. Delaney, comr. transit constr., 49 Lafayette St., New York City, let contract furnishing and installing tracks for portion of Culver Rapid Transit R. R. extending over and along Shell Rd. and West 6th St. from point near Ave. X to Sheepshead Bay Rd., to Slattery Eng. & Constr. Co., 7 East 42nd St., New York City, $58,829. Noted Aug. 28.

**Heating and Ventilating—New York, N. Y.**—Bd. Educ. received bids Aug. 29, installing heating and ventilating apparatus, from E. Ruetzler Co., 404 East 49th St., $115,712; Gillis & Goeghagen, 537 West Bway., $118,706; D. J. Rice, 405 Lexington Ave., $122,267; installing temperature regulating apparatus in P. S. 57, Bronx, from Natl. Regulator Co., 145 East 34th St., $5800; Johnson Serv. Co., 123 East 27th St., $6349; Powers Regulator Co., Park Ave. and 40th St., $7588.

**Column Foundations, Etc.—Phila., Pa.**—Dept. City Transit, Chestnut St., received bids building 47 concrete column foundations for Frankford Elevated Ry., in Front St. near Arch St. and in Frankford Ave. between Dyre and Bridge Sts. Contr. No. 504, (a) 10 cu.yd. excav., (b) 10 cu.yd. concrete masonry, (c) 100 lin.ft. rolled steel channels, (d) 100 lb. miscellaneous steel work, (e) 100 lb. iron casting, (f) 10 cu. yd. brick masonry, (g) 10 cu.yd. rubble stone masonry, (h) 1000 ft. B.M. yellow pine lumber, etc., from Brown King Constr. Co., Commercial Trust Bldg., (a) $3 50 per cu.yd., (b) $12, (c) $.50, (d) $.06, (e) $.06 (f) $20, (g) $9, (h) $80, total cost $25,300. Mundy Paving & Constr. Co., 228 Alden St., (a) $3, (b) $15, (c) $1, (d) $.10, (e) $.10, (f) $30, (g) $10, (h) $75, total cost, $32,000. E. H. Vare, 1126 Race St., (a) $3, (b) $15, (c) $1, (d) $.06, (e) $.06, (f) $20, (g) $15, (h) $100, total cost, $34,700; for station platforms and shelters above foundations, at York and Dauphin Sts and Girard Ave., (a) 10,000 lb. structural steel, (b) 10,000 lb steel reinforcing rods, (c) 10,000 lb. miscellaneous castings, (d) 100 lb. sheet copper work, (e) 1000 lb. galvanized, wrought iron or steel pipe, (f) 100 sq.ft. glazed steel sash wire, (g) 100 sq.ft. galvanized wire mesh screen, (h) 100 lb. square drawn steel tubing, (i) 10 cu.yd. class B concrete. (j) 1000 ft. B.M. yellow pine lumber, Contr. No. 532, from W. Steele & Sons Co., 16th and Arch Sts., (a) $.15, (b) $.09, (c) $.15, (d) $.75, (e) $.50, (f) $1, (g) $1, (h) $.50, (i) $60, (j) $250, total cost, $132,731; F. J. Boas, 201 North Broad St., (a) $.10, (b) $.05, (c) $.10, (d) $.50, (e) $.10, (f) $.50, (g) $.50, (h) $.10, (i) $15, (j) $100, total $113,500. Noted Aug. 14.

★**Creosoted Wood Blocks—Baltimore, Md.**—Bd. Awards let contract furnishing 100,000 creosoted wood blocks, to Hudson Cement & Supply Co., Westwood and Whitmore Aves., $63 per 1000. Noted Aug. 14.

★**Piers—Seattle, Wash.**—Genl. Petroleum Corp., White Bldg., let contract building one 30 x 150 ft. and one 30 x 600 ft. loading piers, creosoted piling, extending into Elliott Bay, to J. A. McEachern Co., Bell St. Dock. About $60,000. This is a portion of oiling station to be built; four 55,000 gal., five 10,000 gal. and one 37,000 gal. steel tanks will be erected later.

★**Bulkheads, Piling, etc.—San Francisco, Cal.**—Paynes Boat Wks., 133 Howard St., let contract constructing bulkheads, piling, grading, etc., for 4 story, brick loft building, on Main and Howard Sts., to Healy-Tibbitts Constr. Co., 9 Main St., $79,217.

★**Dam—Fredericton, N. B.**—Nashwaak Pulp & Paper Co., St. John, let contract building concrete dam on Nashwaak River, about 4 mi. from here, to Ambursen Hydraulic Constr. Co., 10 Cathcart St., Montreal, Que., about $47,800. Plans are also being prepared for pulp mill on this site.

★**Valves, Pipes, etc.—St. John, N. B.**—City let contract to Drummond-McCall Co., 28 Victoria Sq., Montreal, Que., for twenty-five 16 in. Jenkins gate valves at $1.45 each, 522 corp. taps at $1.02 each, 522 curb taps, at $2.02 each and 522 curb boxes at $2 30 each; to Phoenix Fdry. & Locomotive Wks., Phoenixville Penn., 25 tons special castings at $0.07 per lb.; to Vroom & Arnold, St. John, 640 tons 16 in. 210 tons 12 in., 16 tons 10 in., 40 tons 8 in. and 13 tons 6 in. c. i. pipe at $65.50 per ton; to J. Robertson Co Ltd., St. John, 16,650 lb. 8 in. lead pipe at $0.11¼ per lb. and 11,200 lb. leadite at $0.15¾ per lb.

Read the Construction News Section for the latest, most complete and accurate developments in your field.